

City of Greater Sudbury 2001 Urban Soil Survey

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City of Greater Sudbury 2001 Urban Soil Survey

Appendix B

School and Daycare

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1.0 METHODS

During the month of July 2001, MOE representatives collected soil, sand and gravel samples from each school and daycare within the City of Greater Sudbury. At each site, samples were collected in duplicate from all child play areas and especially from areas where school children could come in direct contact with bare soil. Samples were collected in different ways from different locations as described below. The sampling location and pattern of sampling is indicated on each school map attached in Section 2.0. The school maps are provided to indicate the sampling locations on the property and may not be spatially accurate.

Gravel playgrounds, containing slag in some instances, were prevalent at schools within the older urban areas of the Greater City of Sudbury. Since this was the only area for school children to play, duplicate samples were collected from the gravel playground by pushing aside the larger stones and, with a trowel, scraping the underlying fine gravel material. All samples were collected while walking in an "X" pattern across the gravel playground. For this type of sampling, the purpose was to collect the fine particles that would be air borne when school children run and/or slide on the gravel.

Sand samples were collected from all sanded play areas including those with play structures and sand boxes. Due to the constant mixing of sand and homogenous nature of the sanded areas, sand samples were collected with hand trowels to represent the 0-15 cm depth. In most cases, one sample was collected from the interior of the play area in an "X" pattern below the play structure, while the other sample was collected from the perimeter of the sanded play area adjacent to the pressure treated wood border and/or soil. This type of sampling should indicate if there is a concentration gradient from the outside wood border and/or surrounding soil to the interior of the play area. If there was no wooden border, both sand samples were collected from the interior of the sanded play area in an "X" pattern. In most cases, duplicate sand samples were collected; however, at some locations single sand samples were collected.

Soccer and football fields were sampled in duplicate with a hand held soil corer in an "X" pattern of the entire length of the field. Cores were separated into three depths, 0-5 cm, 5 - 10 cm, and 10 - 20 cm where possible. In addition, duplicate samples were taken in any worn area where bare soil was visible; most predominately at soccer goal posts and centre field. Due to the compacted nature of these areas, surface soil samples were taken with a trowel to represent the 0-5 cm depth.

Baseball diamond infields were in most cases gravel and very compacted. Therefore, duplicate surface samples were taken with a trowel. In most cases, one surface sample was collected while walking along the baseline, while the other was collected while walking an "X" pattern from home base to 2nd base and from 1st to 3rd base. This type of sampling should indicate if there is an effect of the chalk lines applied to the baseline compared to the interior of the infield.

Baseball diamond outfields were sampled in duplicate with soil corers in an "X" or "W" pattern. Cores were separated into three depths, 0-5 cm, 5 - 10 cm, and 10 - 20 cm where possible. Where the infield was grassed, samples were collected with a soil corer either as a separate site or combined with the baseball diamond outfield.

Sand from long jump pit landing sites was sampled in duplicate in an "X" pattern. A hand trowel

was used to sample the 0 to 15 cm layer due to the constant mixing of the sand in this location.

Samples were also taken from any grassed greenspace area where school children would play. Cores were separated into three depths, 0-5 cm, 5 - 10 cm, and 10 - 20 cm where possible.

Outdoor ice rinks were not sampled based on the premise that they would only be used when the soil was covered by ice. The remaining paved areas were not sampled.

All samples were delivered to the MOE Phytotoxicology laboratory where they were organized and shipped to Agat Laboratories for Processing (MOE 2000, Appendix F). Agat followed MOE Standard Operating Procedures which included air drying and sieving samples to obtain the 2 mm size fraction, and then further grinding the sample in a mortar and pestle to pass through a Number 45 mesh (0.355 mm) sieve. Finally, the ground material was stored in glass jars. All soil samples were then forwarded to Lakefield Laboratory for chemical analysis including: arsenic (As), aluminum (Al), barium (Ba), beryllium (Be), calcium (Ca), cadmium (Cd), cobalt (Co), copper (Cu), chromium (Cr), iron (Fe), magnesium (Mg), manganese (Mn), molybdenum (Mo), nickel (Ni), lead (Pb), selenium (Se), strontium (Sr), vanadium (V), and zinc (Zn). MOE data management and quality control procedures for both sample processing and metals analysis carried out by contract laboratories is outlined in Appendix F.

All data are reported in $\mu\text{g/g}$ dry weight and were compared with the MOE Table F Ontario Soil Background Criteria and Table A Effects Based Soil Criteria (MOE 1997). In addition, school and daycare property samples have been compared to undisturbed soil results from nearby sites sampled as part of the 2000 Sudbury Soils Report (MOE 2001). It is important to note that the 2000 Report documented metals concentrations in surface soils primarily from undeveloped areas which may not be representative of all materials sampled on the school and/or daycare properties. All of the data presented within this report will be used to support the Human Health Risk Assessment that will be conducted for the City of Greater Sudbury.

2.0 INDIVIDUAL SCHOOL RESULTS, DESCRIPTIONS AND MAPS

2.1 Rainbow District School Board

As of June 2001, the Rainbow District School Board provided the MOE with a list of 40 school properties. MOE representatives were able to collect samples from each property during the summer of 2001. For each school there is a section below describing the results, a table with a subset of the results, and a map showing the sampling locations. The maps were provided by the Rainbow District School Board and the locations of the sampling sites shown are only approximate. The schools are listed alphabetically. Complete results for each school are listed in Table 4.1 along with the results from the other school boards.

Table B2.1 summarizes the number of schools in Rainbow District School Board that were sampled and the number schools where at least one sample exceeded the MOE soil criteria for nickel, copper, cobalt, arsenic or lead (MOE 1997).

Table B2.1: Number of Rainbow District Schools where at least one sample exceed MOE soil criteria.

Number of Schools Sampled	Nickel Exceedences		Copper Exceedences		Cobalt Exceedences		Arsenic Exceedences		Lead Exceedences	
	Table F	Table A	Table F	Table A	Table F	Table A	Table F	Table A	Table F	Table A
40	39	18	11	7	4	2	1	1	3	0

In order to fit all of the results data onto one table the standard chemical abbreviations had to be used. To interpret the tables properly, the chart below can be used to translate the abbreviations.

Chemical Symbols Used in Results Tables				
Al - aluminum	Sb - antimony	As - arsenic	Ba - barium	Be - beryllium
Cd - cadmium	Ca - calcium	Cr - chromium	Co - cobalt	Cu - copper
Fe - iron	Pb - lead	Mg - magnesium	Mn - manganese	Mo - molybdenum
Ni - nickel	Se - selenium	Sr - strontium	V - vanadium	Zn - zinc

Please note as of 2004, Rainbow District School Board has closed Falconbridge Public School (2.2.13) and Robert Jack Public School (2.1.34) and has renamed Northeastern Secondary School (2.2.27) to Northeastern Elementary School.

2.1.1 Adamsdale Public School - Rainbow District School Board 181 1st Avenue, Sudbury

Adamsdale Public School was sampled on July 17, 2001. Figure 2.1.1 details the sampling locations at this property. Samples were taken from four areas on the school property. Area A corresponds to the baseball diamond outfield. Areas B and C correspond to the north and south baseball diamond infields, respectively. The north baseball diamond infield was grassed while the south infield was sand and gravel. Due to the compacted nature of Areas A, B, and C it was only possible to sample the surface soil (0 - 5 cm). Area D corresponds to sand samples that were taken from below the play structures. Due to the constant mixing of sand and the homogenous nature of the sanded areas, sand samples were collected with hand trowels to represent the 0-15 cm depth. All data were compared with the MOE Table F Ontario Soil Background Criteria and Table A Effects Based Soil Criteria (MOE 1997).

Metal concentrations were not elevated in the sand beneath the play structure. The sand present is not likely native to the school property and is believed to have been introduced when the sanded play areas were constructed. Thus the sand was not expected to have elevated metal concentrations. Nickel concentrations were elevated above the MOE Table F Ontario Soil Background Criteria in the surface soil of all other locations at this property. Copper was also elevated above the Table F Ontario Soil Background Criteria in the surface soil of the baseball diamond outfield and the south baseball diamond infield. The highest nickel and copper concentrations, 130 and 100 ppm, respectively, occurred in the surface soil of the south baseball diamond infield. All other metals listed, as well as aluminum (Al), calcium (Ca), iron (Fe), magnesium (Mg), manganese (Mn), and strontium (Sr) which are not listed, were below the MOE Table F Ontario Soil Background Criteria. There were no exceedences of the MOE Table A Effects Based Soil Criteria at this property.

These soil results are lower than those reported historically. Previous MOE sampling of undisturbed soils approximately 0.5 km south and 1 km north of Adamsdale School, Stations 77 and 361, respectively, of the MOE Sudbury 2000 Report for the City of Greater Sudbury (MOE 2001), indicated nickel and copper surface soil concentrations as high as 210 and 220 ppm, respectively. Historic MOE sampling in the Sudbury area was of undeveloped surface soils which may not be representative of the materials sampled on this property.

Table B2.1.1: Concentration of 13 Elements in Soil in µg/g Collected at Adamsdale Public School, 181 1st Avenue, Sudbury - 2001																
Map ID	Station	Sample Number	Soil Depth	Sb	As	Ba	Cd	Cr	Co	Cu	Pb	Mo	Ni	Se	V	Zn
Area A grass	5037144	14299	0 - 5	< 0.8	< 5	41	< 0.8	41	6	62	49	< 1.5	73	< 1	29	30
		14300	0 - 5	< 0.8	6	44	< 0.8	43	7	60	34	< 1.5	73	< 1	33	36
Area B grass	5037145	14301	0 - 5	< 0.8	< 5	48	< 0.8	39	7	44	11	1.6	65	< 1	34	47
		14302	0 - 5	< 0.8	< 5	47	< 0.8	37	7	42	10	< 1.5	60	< 1	33	34
Area C gravel	5037146	14303	0 - 5	< 0.8	8	25	< 0.8	29	10	100	19	< 1.5	120	< 1	29	48
		14304	0 - 5	< 0.8	8	22	< 0.8	28	10	92	19	< 1.5	130	< 1	28	38
Area D sand	5037147	14305	0 - 15	< 0.8	< 5	23	< 0.8	29	7	17	2	< 1.5	19	< 1	28	17
		14306	0 - 15	< 0.8	5	22	< 0.8	29	8	18	3	< 1.5	20	< 1	29	17
Table F (results in bold)				1.0	14	190	1.0	67	19	56	55	2.5	43	1.4	91	150
Table A (results in bold and underlined)				13	20	750	12	750	40	225	200	5.0	150	10	200	600
< - less than the Method Detection Limit.																
Al, Ca, Fe, Mg, Mn, and Sr results can be found in Table 4.1.																

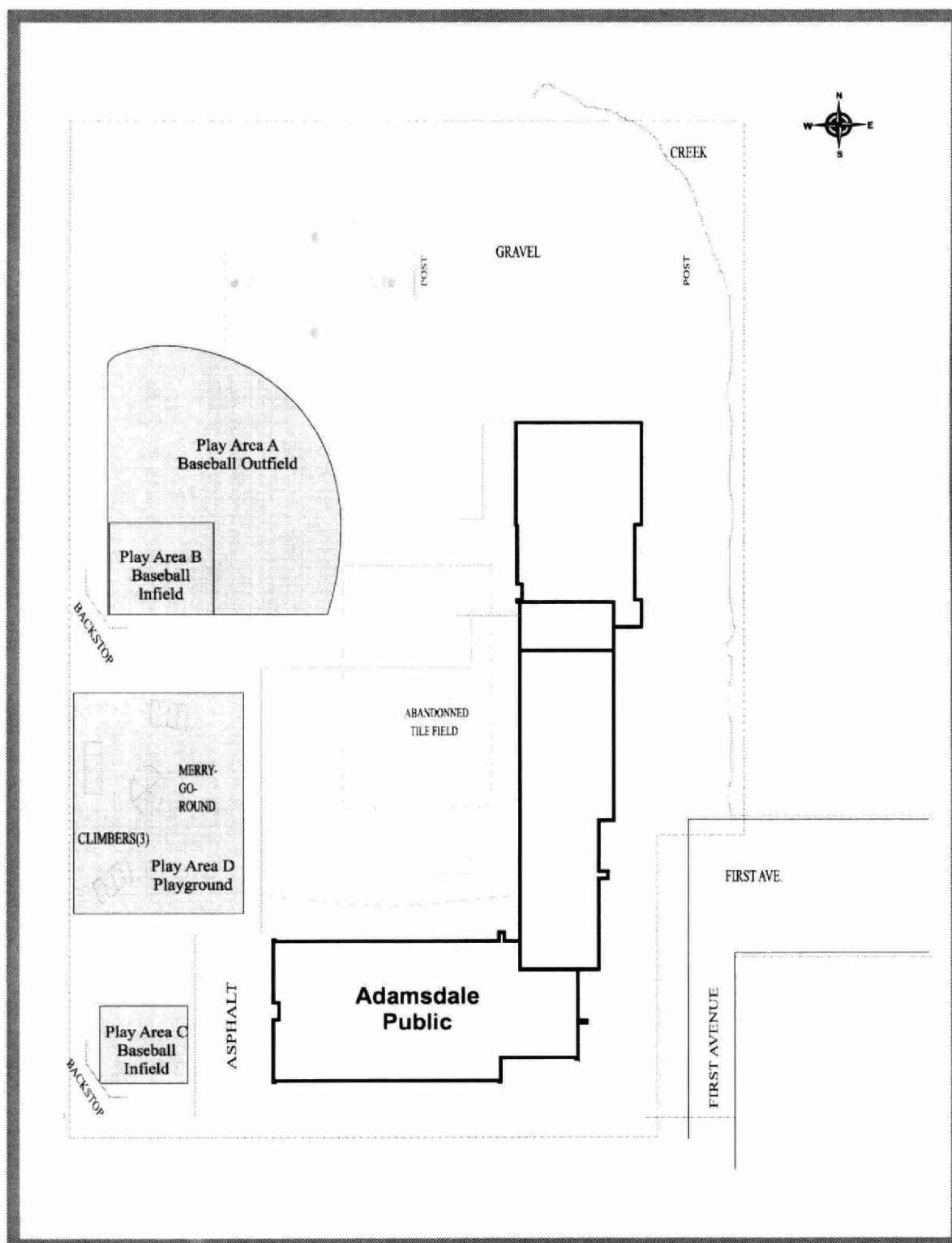


Figure B2.1.1: Adamsdale Public School Soil Sampling Locations - 2001

2.1.2 Alexander Public School - Rainbow District School Board 39 St. Brendan Street, Sudbury

Alexander Public School, in which Alexander Kids Daycare is located, was sampled on July 5, 2001. Figure B2.1.2 details the sampling locations at this property. Samples were collected from three areas on the school property, including the play area believed to be used by Alexander Kids Daycare. Areas A and B correspond to the northwest and southeast gravel playgrounds, respectively. Area C corresponds to the sand samples that were taken below the play structure. Due to the constant mixing of sand and the homogenous nature of the sanded areas, sand samples were collected with hand trowels to represent the 0-15 cm depth. Hand trowels were also used to collect the gravel samples to represent the 0-5 cm depth. All data were compared with the MOE Table F Ontario Soil Background Criteria and the Table A Effects Based Soil Criteria (MOE 1997).

Metals concentrations were not elevated in the sand beneath the play structure in Area C. The sand present is not likely native to the school property and is believed to have been introduced when the sanded play areas were constructed. Thus the sand was not expected to have elevated metals concentrations. Copper (Cu), and nickel (Ni) concentrations were elevated above the MOE Table F Ontario Soil Background Criteria at both gravel playgrounds, whereas cobalt (Co) was elevated above the Table F Ontario Soil Background Criteria at the northwest gravel playground only. Nickel concentrations were above the MOE Table A Effects Based Soil Criteria at the northwest gravel playground of this property as well. The highest nickel, copper, and cobalt concentrations, 180, 180, and 31 ppm, respectively, were found at the northwest gravel playground. All other metals were listed, as well as aluminum (Al), calcium (Ca), iron (Fe), magnesium (Mg), manganese (Mn), and strontium (Sr) which are not listed, were below the MOE Table F Ontario Soil Background Criteria.

The nickel and copper results from the gravel playgrounds are lower than those reported historically. Previous MOE sampling of undisturbed soils approximately 1 km south and 1.5 km west of Alexander Public School and Alexander Kids Daycare, Stations 74 and 75, respectively, of the MOE Sudbury 2000 Report for the City of Greater Sudbury (MOE 2001), indicated nickel and copper surface soil concentrations as high as 830 and 820 ppm, respectively. The cobalt results from the gravel playgrounds are similar to those reported historically. The highest cobalt soil concentration reported for Stations 74 and 75 of the MOE Sudbury 2000 Report for the City of Greater Sudbury

Table B2.1.2: Concentration of 13 Elements in Soil in µg/g Collected at Alexander Public School, 39 St. Brendan Street, Sudbury - 2001																
Map ID	Station	Sample Number	Soil Depth	Sb	As	Ba	Cd	Cr	Co	Cu	Pb	Mo	Ni	Se	V	Zn
Area A gravel	5037084	14166	0 - 5	< 0.8	< 5	34	< 0.8	47	31	180	14	< 1.5	<u>180</u>	< 1	35	73
		14167	0 - 5	< 0.8	< 5	40	< 0.8	47	27	160	14	< 1.5	<u>170</u>	< 1	36	61
Area B gravel	5037085	14168	0 - 5	< 0.8	< 5	29	< 0.8	26	8	77	6	< 1.5	80	< 1	25	26
		14169	0 - 5	< 0.8	< 5	35	< 0.8	29	11	120	9	< 1.5	120	< 1	27	40
Area C sand	5037086	14170	0 - 15	< 0.8	< 5	22	< 0.8	30	7	31	3	< 1.5	39	< 1	30	23
		14171	0 - 15	< 0.8	< 5	18	< 0.8	26	6	24	3	< 1.5	29	< 1	24	21
Table F (results in bold)				1.0	14	190	1.0	67	19	56	55	2.5	43	1.4	91	150
Table A (results in bold and underlined)				13	20	750	12	750	40	225	200	5.0	150	10	200	600
< - less than the Method Detection Limit.																
Al, Ca, Fe, Mg, Mn, and Sr results can be found in Table 4.1.																

(MOE 2001) was 38 ppm. It is important to note that previous MOE sampling was of undisturbed soils, whereas, these results reported below are for small particles collected on gravel playgrounds.

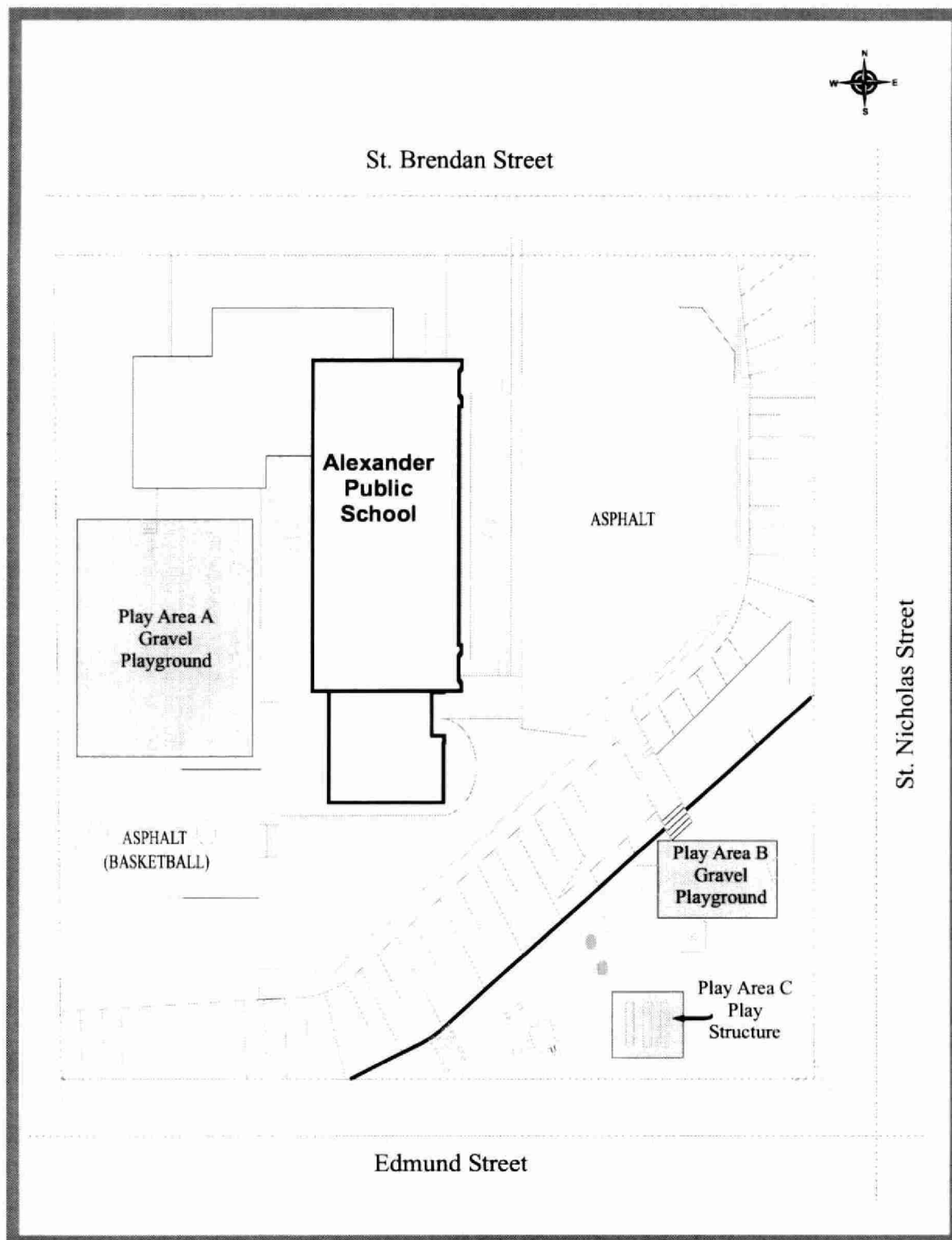


Figure B2.1.2: Alexander Public School Soil Sampling Locations - 2001

2.1.3 Algonquin Road Public School - Rainbow District School Board 2650 Algonquin Road, Sudbury

Algonquin Road Public School was sampled on July 3, 2001. Figure B2.1.3 details the sampling locations at this property. Samples were taken from five areas on the school property. Areas A and E correspond to the grassed play area north of the school and the baseball diamond outfield, respectively. Due to the compacted nature of these grassed areas, it was only possible to sample to a depth of 15 cm in the area north of the school and 10 cm in the baseball diamond outfield. Areas B and C correspond to the sand samples that were taken below the play structures. Due to the constant mixing of the sand and the homogeneous nature of the sanded areas, sand samples were collected with hand trowels to represent the 0-15 cm depth. Area D corresponds to the baseball diamond infield. Due to the compacted nature of the gravel and sand infield, it was only possible to sample the surface soil (0 - 5 cm). All data were compared with the MOE Table F Ontario Soil Background Criteria and Table A Effects Based Soil Criteria (MOE 1997).

Metal concentrations were not elevated in the sand beneath the play structures. The sand present is not likely native to the school property and is believed to have been introduced when the sanded play areas were constructed. Thus the sand was not expected to have elevated metals concentrations. Nickel (Ni) concentrations were elevated above the MOE Table F Ontario Soil Background Criteria in Areas A and D. The highest nickel and copper concentrations, 85 and 74 ppm, respectively, occurred in the 5-10 cm depth of the grassed area north of the school (Area A). All other metals listed, as well as aluminum (Al), calcium (Ca), iron (Fe), magnesium (Mg), manganese (Mn), and strontium (Sr) which are not listed, were below the MOE Table F Ontario Soil Background Criteria. There were no exceedences of the MOE Table A Effects Based Soil Criteria at this property.

Table B2.1.3: Concentration of 13 Elements in Soil in µg/g Collected at Algonquin Road Public School, 2650 Algonquin Road, Sudbury - 2001																
Map ID	Station	Sample Number	Soil Depth	Sb	As	Ba	Cd	Cr	Co	Cu	Pb	Mo	Ni	Se	V	Zn
Area A grass	5037016	14002	0 - 5	< 0.8	< 5	31	< 0.8	30	8	51	9	< 1.5	63	< 1	30	31
		14003	0 - 5	< 0.8	< 5	34	< 0.8	31	9	58	10	< 1.5	71	< 1	30	32
		14004	5 - 10	< 0.8	< 5	37	< 0.8	30	8	71	15	< 1.5	85	< 1	30	39
		14005	5 - 10	< 0.8	< 5	40	< 0.8	31	8	74	13	< 1.5	80	< 1	31	40
		14006	10 - 15	< 0.8	< 5	40	< 0.8	28	6	39	8	< 1.5	49	< 1	31	24
		14007	10 - 15	< 0.8	< 5	37	< 0.8	27	5	42	7	< 1.5	46	< 1	31	24
Area B sand	5037017	14008	0 - 15	< 0.8	< 5	22	< 0.8	29	7	23	4	< 1.5	24	< 1	30	16
		14009	0 - 15	< 0.8	< 5	21	< 0.8	30	7	23	3	< 1.5	24	< 1	32	16
Area C sand	5037018	14010	0 - 15	< 0.8	< 5	20	< 0.8	28	7	18	3	< 1.5	24	< 1	33	14
		14011	0 - 15	< 0.8	< 5	24	< 0.8	35	7	22	3	< 1.5	27	< 1	35	17
Area D gravel	5037019	14012	0 - 5	1.1	< 5	48	< 0.8	35	9	52	8	< 1.5	62	< 1	30	23
		14013	0 - 5	1.5	< 5	58	< 0.8	41	10	54	7	2.7	68	< 1	33	29
Area E grass	5037020	14018	0 - 5	< 0.8	< 5	41	< 0.8	33	7	45	9	< 1.5	72	< 1	30	31
		14019	0 - 5	< 0.8	< 5	41	< 0.8	35	7	47	9	< 1.5	72	< 1	31	33
		14020	5 - 10	< 0.8	6	50	< 0.8	46	8	47	10	< 1.5	72	< 1	37	37
		14021	5 - 10	< 0.8	< 5	45	< 0.8	47	8	41	10	< 1.5	66	< 1	37	32
Table F (results in bold)				1.0	14	190	1.0	67	19	56	55	2.5	43	1.4	91	150
Table A (results in bold and underlined)				13	20	750	12	750	40	225	200	5.0	150	10	200	600
< - less than the Method Detection Limit.																
Al, Ca, Fe, Mg, Mn, and Sr results can be found in Table 4.1.																

These soil results are lower than those reported historically. Previous MOE sampling of undisturbed soils approximately 1.5 km north northeast and 1.5 km southwest of Algonquin Public School, Stations 366 and 365, respectively, of the MOE Sudbury 2000 Report for the City of Greater Sudbury (MOE 2001), indicated nickel and copper surface soil concentrations as high as 170 and

190 ppm, respectively. Historic MOE sampling in the Sudbury area was of undeveloped surface soils which may not be representative of the materials sampled on this property.

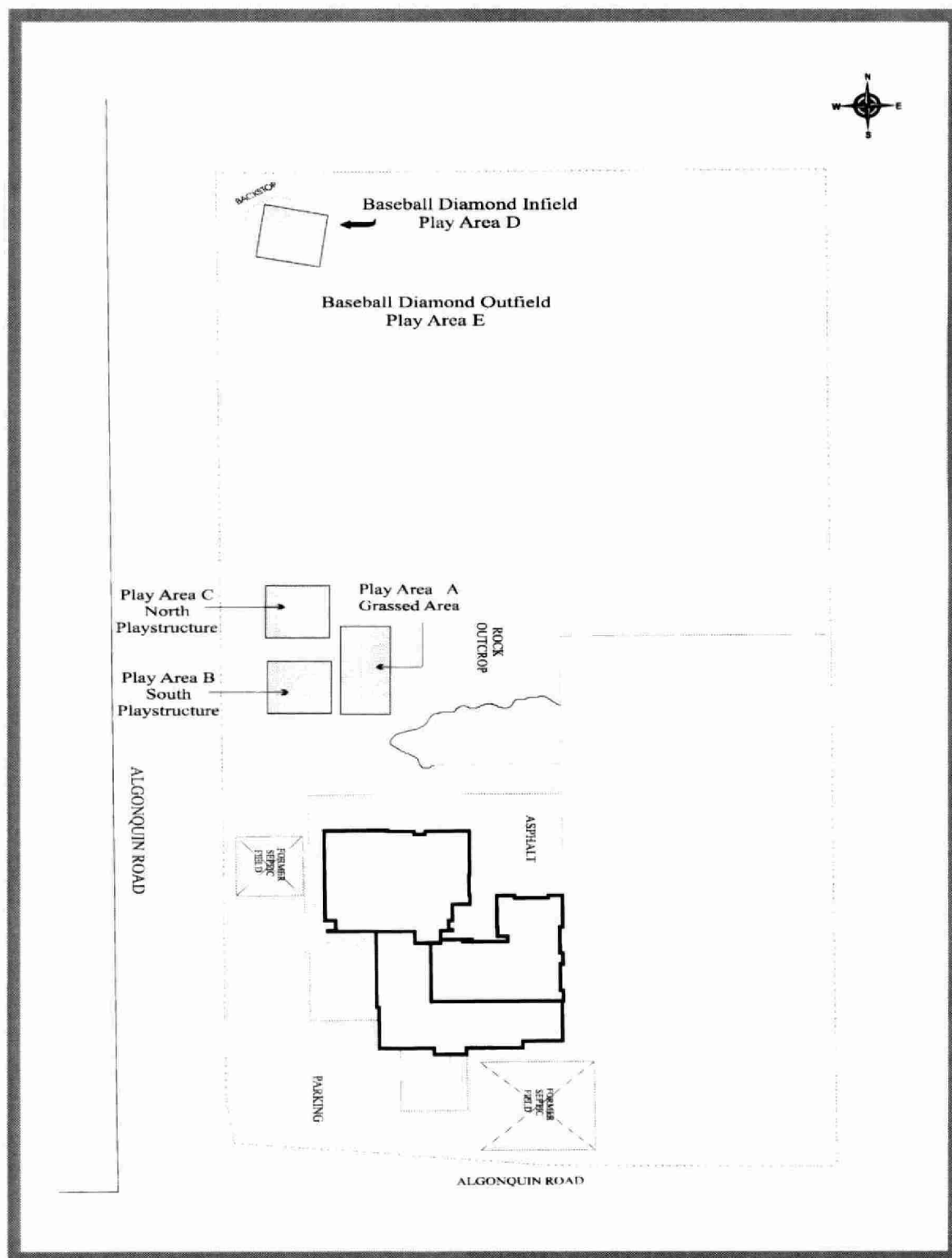


Figure B2.1.3: Algonquin Public School Soil Sampling Locations - 2001

2.1.4 C.R. Judd Public School - Rainbow District School Board 8 Lincoln Street, Capreol

C.R. Judd Public School, including C.R. Judd Daycare, was sampled on July 20, 2001. Figure B2.1.4 details the sampling locations at this property. Samples were taken from three areas on the school property. Area A corresponds to the baseball diamond outfield. Due to the compacted nature of this area it was only possible to sample the surface soil (0-5 cm). Area B corresponds to the grassed football field southwest of the school. Soil samples from this location were taken at all three depths. Area C corresponds to sand taken from the sand boxes located on the east side of the school. Due to the constant mixing of sand and homogeneous nature of the sanded areas, a single sand sample was collected with a hand trowel to represent the 0-15 cm depth. All data were compared with the MOE Table F Ontario Soil Background Criteria and Table A Effects Based Soil Criteria (MOE 1997).

Metal concentrations were not elevated in the sand from the sand boxes. The sand present is not likely native to the school property and is believed to have been introduced when the sand boxes were constructed. Thus the sand was not expected to have elevated metal concentrations. Only one sample from this property had a nickel concentration that was slightly elevated above the MOE Table F Ontario Soil Background Criteria at 46 ppm. There were not any other exceedences of the MOE Table F Ontario Soil Background Criteria or the MOE Table A Effects Based Soil Criteria at this property. In addition, aluminum (Al), calcium (Ca), iron (Fe), magnesium (Mg), manganese (Mn), and strontium (Sr) which are not listed, were also below the MOE Table F Ontario Soil Background Criteria.

These soil results are lower than those reported historically. Previous MOE sampling of undisturbed soils approximately 1 km north northwest of C.R. Judd Public School, Station 352 of the MOE Sudbury 2000 Report for the City of Greater Sudbury (MOE 2001), indicated nickel and copper surface soil concentrations as high as 130 and 110 ppm, respectively. Historic MOE sampling in the Sudbury area was of undeveloped surface soils which may not be representative of the materials sampled on this property.

Table B2.1.4: Concentration of 13 Elements in Soil in µg/g Collected at C.R. Judd Public School, 8 Lincoln Street, Capreol - 2001																
Map ID	Station	Sample Number	Soil Depth	Sb	As	Ba	Cd	Cr	Co	Cu	Pb	Mo	Ni	Se	V	Zn
Area A grass	5037354	14571	0 - 5	< 0.8	6	33	< 0.8	25	4	34	10	< 1.5	46	< 1	26	28
		14572	0 - 5	< 0.8	6	34	< 0.8	26	5	30	10	< 1.5	41	< 1	26	28
Area B grass	5037355	14573	0 - 5	< 0.8	6	27	< 0.8	31	4	30	32	< 1.5	36	< 1	24	26
		14574	0 - 5	< 0.8	6	27	< 0.8	36	4	31	49	< 1.5	37	< 1	23	27
		14575	5 - 10	< 0.8	6	27	< 0.8	24	4	19	9	< 1.5	30	< 1	22	22
		14576	5 - 10	< 0.8	5	25	< 0.8	24	4	16	5	< 1.5	26	< 1	21	19
		14577	10 - 20	< 0.8	< 5	25	< 0.8	24	4	13	4	< 1.5	21	< 1	24	17
		14578	10 - 20	< 0.8	< 5	30	< 0.8	26	4	17	5	< 1.5	29	< 1	26	22
Area C sand	5037356	14579	0 - 15	< 0.8	< 5	23	< 0.8	25	6	12	2	< 1.5	18	< 1	25	16
Table F (results in bold)				1.0	14	190	1.0	67	19	56	55	2.5	43	1.4	91	150
Table A (results in bold and underlined)				13	20	750	12	750	40	225	200	5.0	150	10	200	600
< - less than the Method Detection Limit.																
Al, Ca, Fe, Mg, Mn, and Sr results can be found in Table 4.1.																

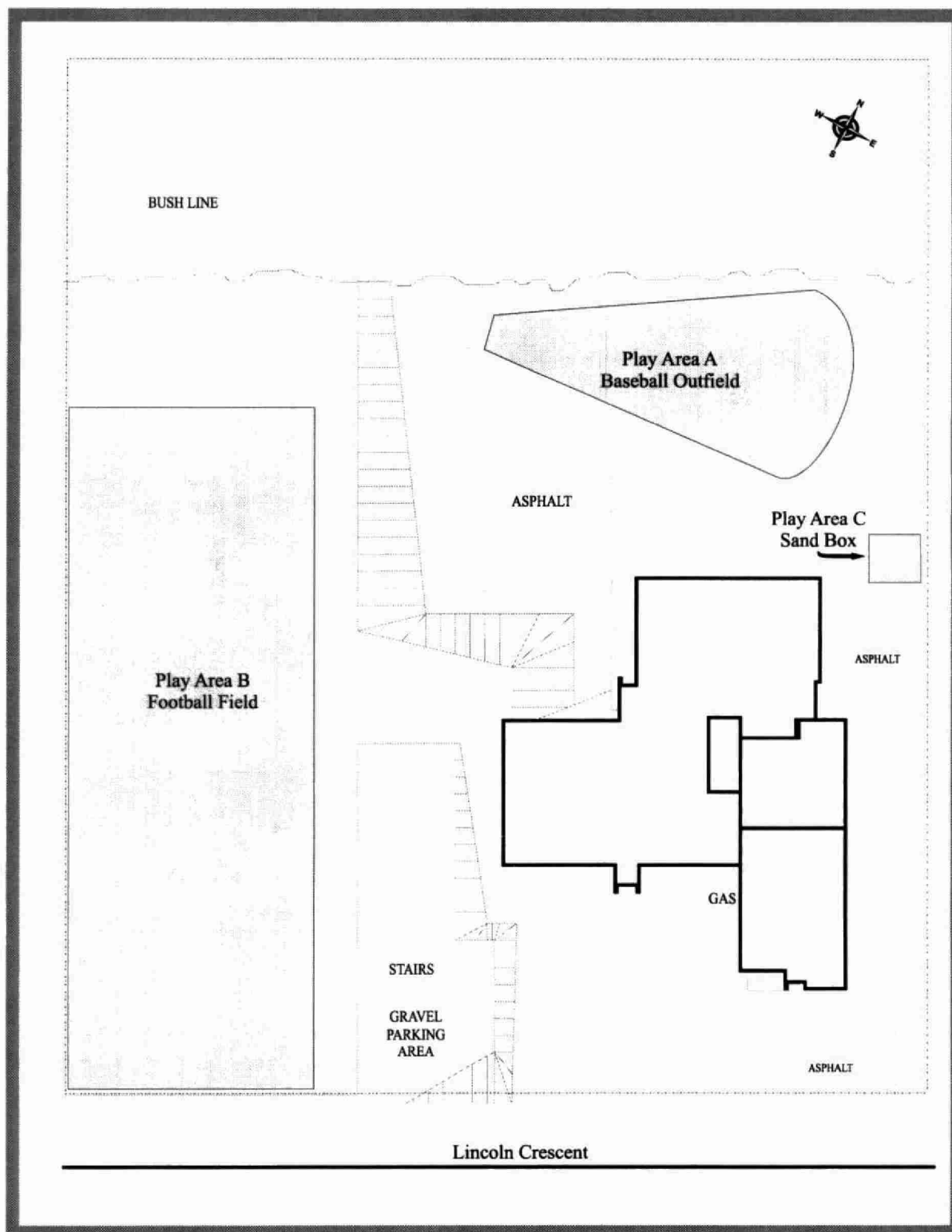


Figure B2.1.4: C.R. Judd Public School Sampling Locations - 2001.

2.1.5 Carl A. Nesbitt Public School - Rainbow District School Board 1241 Roy Street, Sudbury

Carl A. Nesbitt Public School was sampled on July 17, 2001. Figure B2.1.5 details the sampling locations at this property. Samples were taken from nine areas on the school property. Area A corresponds to the grassed area of the south soccer field. Areas B and C correspond to the worn areas at the south and north goal posts, respectively. Area G corresponds to the worn area at the north goal post of the north soccer field. Area H corresponds to the baseball diamond infield. Due to the compacted nature of Areas A, B, C, G, and H, it was only possible to sample the surface soil (0 - 5 cm) layer. Areas D and E correspond to sand samples taken from below the play structure and from the sand box, respectively. Area I corresponds to a sand sample that was taken from the landing area of the long jump pit. Due to the constant mixing of sand and the homogeneous nature of the sanded areas, sand samples were collected with hand trowels to represent the 0-15 cm depth. Area F corresponds to the grassed area of the north soccer field. All depths were able to be collected from this area. All data was compared with the MOE Table F Ontario Soil Background Criteria and Table A Effects Based Soil Criteria (MOE 1997).

Metals concentrations were not elevated in the sand samples that were taken from below the play structure (Area D), from the sand box (Area E), or from the landing area of the long jump pit (Area I). The sand present is not likely native to the school property and is believed to have been introduced when the play areas were constructed. Thus the sand was not expected to have elevated metals concentrations. Nickel concentrations were elevated above the MOE Table F Ontario Soil Background Criteria at all other sampling locations and depths at this property. Copper was elevated above the Table F Ontario Soil Background Criteria for all sampling depths at both soccer fields. The highest nickel and copper concentrations, 120 and 110 ppm, respectively, occurred in the surface soil of the south soccer field. All other metals listed, as well as aluminum (Al), calcium (Ca), iron (Fe), magnesium (Mg), manganese (Mn), and strontium (Sr) which are not listed, were below the MOE Table F Ontario Soil Background Criteria. There were no exceedences of the MOE Table A Effects Based Soil Criteria at this property.

These surface soil results are similar to those reported historically. Previous MOE sampling of undisturbed soils approximately 1 east of Carl A. Nesbitt Public School, Station 43 of the MOE Sudbury 2000 Report for the City of Greater Sudbury (MOE 2001), indicated nickel and copper surface soil concentrations as high as 190 and 210 ppm, respectively. Historic MOE sampling in the Sudbury area was of undeveloped surface soils which may not be representative of all materials sampled on this property.

Table B2.1.5: Concentration of 13 Elements in Soil in µg/g Collected at Carl A Nesbitt Public School, 1241 Roy Street, Sudbury - 2001																
Map ID	Station	Sample Number	Soil Depth	Sb	As	Ba	Cd	Cr	Co	Cu	Pb	Mo	Ni	Se	V	Zn
Area A grass	5037184	14346	0 - 5	< 0.8	6	48	< 0.8	32	9	110	18	< 1.5	120	< 1	30	35
		14347	0 - 5	< 0.8	5	44	< 0.8	32	7	100	12	< 1.5	77	< 1	31	28
Area B soil	5037185	14348	0 - 5	< 0.8	6	44	< 0.8	35	7	50	11	< 1.5	75	< 1	34	27
Area C soil	5037186	14349	0 - 5	< 0.8	5	37	< 0.8	34	7	56	11	< 1.5	74	< 1	32	27
Area D sand	5037187	14350	0 - 15	< 0.8	< 5	23	< 0.8	26	6	14	2	< 1.5	22	< 1	33	16
		14351	0 - 15	< 0.8	< 5	24	< 0.8	27	6	15	2	< 1.5	22	< 1	33	17
Area E sand	5037188	14352	0 - 15	< 0.8	< 5	19	< 0.8	22	5	12	2	< 1.5	17	< 1	27	16
		14353	0 - 15	< 0.8	< 5	20	< 0.8	25	6	15	3	< 1.5	19	< 1	31	20
Area F grass	5037189	14357	0 - 5	< 0.8	< 5	41	< 0.8	36	8	87	16	< 1.5	99	< 1	30	34
		14358	0 - 5	< 0.8	< 5	44	< 0.8	35	8	73	13	< 1.5	77	< 1	33	31
		14359	5 - 10	< 0.8	6	38	< 0.8	34	7	60	10	< 1.5	70	< 1	31	27
		14360	5 - 10	< 0.8	< 5	34	< 0.8	30	7	47	7	< 1.5	55	< 1	31	24
		14361	10 - 20	< 0.8	8	40	< 0.8	33	8	73	11	< 1.5	100	< 1	29	27
		14362	10 - 20	< 0.8	7	42	< 0.8	34	8	57	9	< 1.5	94	< 1	30	24
Area G soil	5037190	14355	0 - 5	< 0.8	6	41	< 0.8	32	6	53	8	< 1.5	60	< 1	32	47
Area H soil	5037191	14354	0 - 5	< 0.8	< 5	46	< 0.8	32	7	51	10	< 1.5	73	< 1	31	41
Area I sand	5037192	14356	0 - 15	< 0.8	< 5	18	< 0.8	21	5	11	2	< 1.5	14	< 1	26	13
Table F (results in bold)				1.0	14	190	1.0	67	19	56	55	2.5	43	1.4	91	150
Table A (results in bold and underlined)				13	20	750	12	750	40	225	200	5.0	150	10	200	600
< - less than the Method Detection Limit. Al, Ca, Fe, Mg, Mn, and Sr results can be found in Table 4.1.																

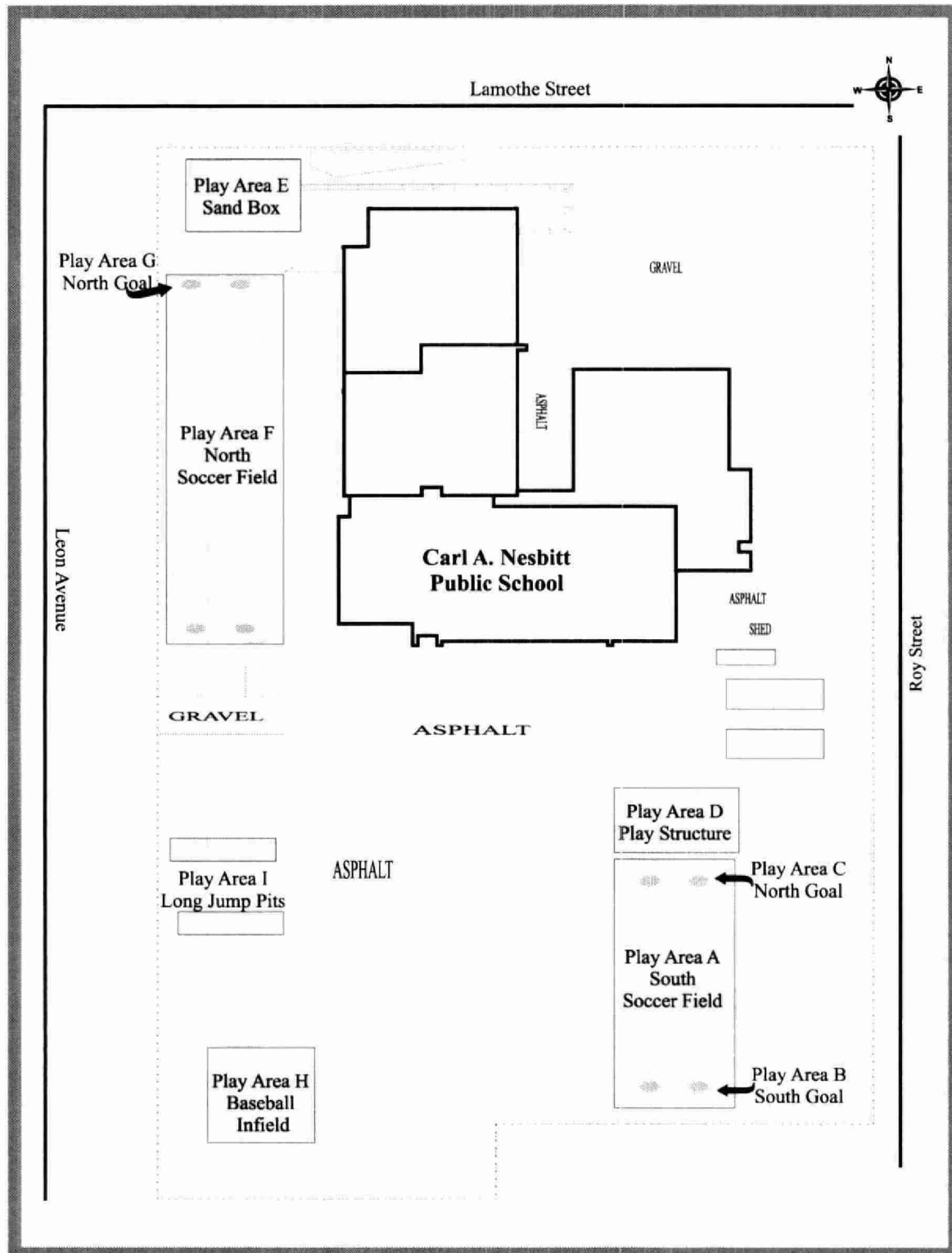


Figure B2.1.5: Carl A. Nesbitt Public School Sampling Locations - 2001.

2.1.6 Chelmsford Public School - Rainbow District School Board 121 Charlotte Street, Chelmsford

Chelmsford Public School, including Services de Garde Rayside-Balfour #2 Daycare, was sampled on July 19, 2001. Figure B2.1.6 details the sampling locations at this property. Samples were taken from four areas on the school property. Area A corresponds to the grassed area of the soccer field. Areas B, C, and D correspond to sand samples that were taken from the north, east and west sanded play areas, respectively. Due to the constant mixing of sand and the homogeneous nature of the sanded areas, sand samples were collected with hand trowels to represent the 0-15 cm depth. All data were compared with the MOE Table F Ontario Soil Background Criteria and Table A Effects Based Soil Criteria (MOE 1997).

Metal concentrations were not elevated in the sand beneath the play structures or in the landing area of the long jump pit. The sand present is not likely native to the school property and is believed to have been introduced when the play areas were constructed. Thus the sand was not expected to have elevated metals concentrations. Nickel concentrations were marginally elevated above the MOE Table F Ontario Soil Background Criteria in the soil samples collected from the soccer field, with the highest nickel concentration found, 49 ppm, in the surface soil layer (0-5 cm). All other metals listed, as well as aluminum (Al), calcium (Ca), iron (Fe), magnesium (Mg), manganese (Mn), and strontium (Sr) which are not listed, were below the MOE Table F Ontario Soil Background Criteria. There were no exceedences of the MOE Table A Effects Based Soil Criteria at this property.

These soil results are slightly lower than those reported historically. Previous MOE sampling of undisturbed soils approximately 3 km southwest and 3 km northwest of Chelmsford Public School, Stations 385 and 386 of the MOE Sudbury 2000 Report for the City of Greater Sudbury (MOE 2001), indicated nickel concentrations as high as 83 ppm. Historic MOE sampling in the Sudbury area was of undeveloped surface soils which may not be representative of the materials sampled on this property.

Table B2.1.6: Concentration of 13 Elements in Soil in µg/g Collected at Chelmsford Public School, 121 Charlotte Street, Chelmsford - 2001																
Map ID	Station	Sample Number	Soil Depth	Sb	As	Ba	Cd	Cr	Co	Cu	Pb	Mo	Ni	Se	V	Zn
Area A grass	5037388	14526	0 - 5	< 0.8	6	43	< 0.8	35	6	32	11	< 1.5	47	< 1	33	30
		14527	0 - 5	< 0.8	< 5	43	< 0.8	33	6	28	10	< 1.5	49	< 1	32	29
		14528	5 - 10	< 0.8	< 5	44	< 0.8	36	6	22	10	< 1.5	42	< 1	35	25
		14529	5 - 10	< 0.8	< 5	43	< 0.8	35	6	28	11	< 1.5	47	< 1	33	26
		14530	10 - 20	< 0.8	< 5	37	< 0.8	28	5	20	9	< 1.5	38	< 1	31	21
		14531	10 - 20	< 0.8	< 5	40	< 0.8	30	6	22	9	< 1.5	42	< 1	32	23
Area B sand	5037389	14523	0 - 15	< 0.8	< 5	18	< 0.8	26	6	15	4	< 1.5	16	< 1	31	21
Area C sand	5037390	14524	0 - 15	< 0.8	< 5	18	< 0.8	27	7	15	4	< 1.5	20	< 1	32	23
Area D sand	5037391	14525	0 - 15	< 0.8	< 5	16	< 0.8	25	6	17	4	< 1.5	16	< 1	33	20
Table F (results in bold)				1.0	14	190	1.0	67	19	56	55	2.5	43	1.4	91	150
Table A (results in bold and underlined)				13	20	750	12	750	40	225	200	5.0	150	10	200	600
< - less than the Method Detection Limit.																
Al, Ca, Fe, Mg, Mn, and Sr results can be found in Table 4.1.																

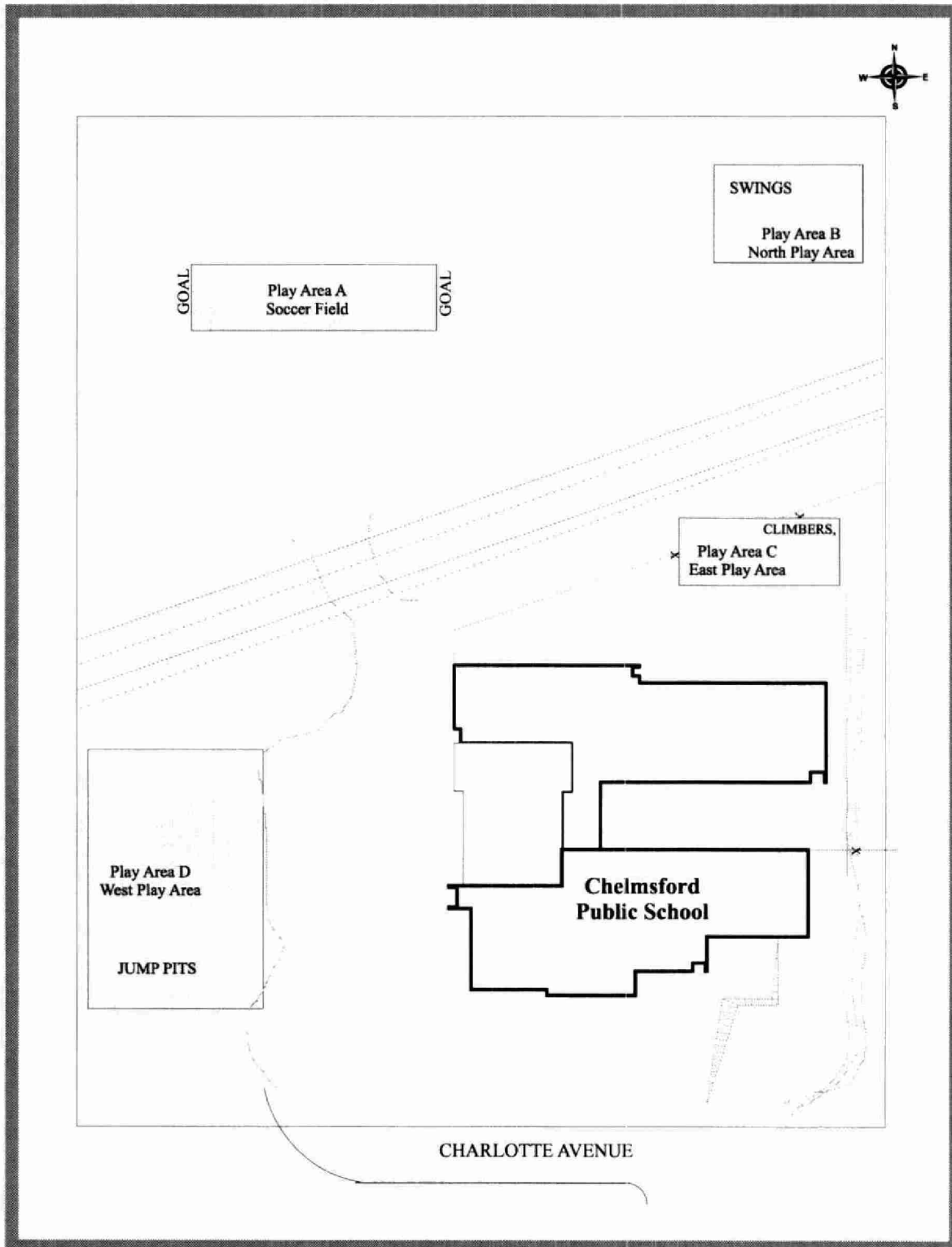


Figure B2.1.6: Chelmsford Public School Sampling Locations - 2001.

2.1.7 Chelmsford Valley District School - Rainbow District School Board 3594 Highway 144, Chelmsford

The property of Chelmsford Valley District School, which is also utilized by students of E.P. Pavillion de l'avenir of the Conseil Scolaire du District de Grand Nord de L'Ontario, was sampled on July 19, 2001. Figure B2.1.7 details the sampling locations at this property. Samples were taken from three areas on the school property. Area A corresponds to grassed football field located inside of the running track. Area B corresponds to grassed areas of the soccer fields at the north end of the property. Area C corresponds to the baseball diamond infield. Due to the compacted nature of Area C, it was only possible to sample the surface soil (0 - 5 cm), while all other grassed areas were sampled at three depths. All data were compared with the MOE Table F Ontario Soil Background Criteria and Table A Effects Based Soil Criteria (MOE 1997).

Nickel concentrations were elevated above the MOE Table F Ontario Soil Background Criteria in the surface soil of the soccer fields only. All other metals listed, as well as aluminum (Al), calcium (Ca), iron (Fe), magnesium (Mg), manganese (Mn), and strontium (Sr) which are not listed, were below the MOE Table F Ontario Soil Background Criteria. There were no exceedences of the MOE Table A Effects Based Soil Criteria at this property.

These soil results are slightly lower than those reported historically. Previous MOE sampling of undisturbed soils approximately 3 km southwest and 3 km northwest of Chelmsford Valley District School, Stations 385 and 386, respectively, of the MOE Sudbury 2000 Report for the City of Greater Sudbury (MOE 2001), indicated nickel concentrations as high as 83 ppm. Historic MOE sampling in the Sudbury area was of undeveloped surface soils which may not be representative of the materials sampled on this property.

Table B2.1.7: Concentration of 13 Elements in Soil in µg/g Collected at Chelmsford Valley District School, 3594 Highway 144, Chelmsford - 2001																
Map ID	Station	Sample Number	Soil Depth	Sb	As	Ba	Cd	Cr	Co	Cu	Pb	Mo	Ni	Se	V	Zn
Area A grass	5037375	14503	0 - 5	< 0.8	< 5	36	< 0.8	34	5	23	46	< 1.5	36	< 1	28	21
		14504	0 - 5	< 0.8	6	35	< 0.8	36	5	19	55	< 1.5	32	< 1	28	21
		14505	5 - 10	< 0.8	< 5	37	< 0.8	30	5	16	8	< 1.5	30	< 1	30	20
		14506	5 - 10	< 0.8	5	39	< 0.8	33	7	23	15	< 1.5	38	< 1	31	25
		14507	10 - 20	< 0.8	< 5	36	< 0.8	30	6	27	17	< 1.5	43	< 1	29	23
Area B grass	5037376	14508	0 - 5	< 0.8	6	32	< 0.8	24	5	38	14	< 1.5	54	< 1	26	22
		14509	0 - 5	< 0.8	< 5	30	< 0.8	22	5	37	14	< 1.5	55	< 1	24	21
		14510	5 - 10	< 0.8	< 5	33	< 0.8	25	5	18	7	< 1.5	33	< 1	27	18
		14511	5 - 10	< 0.8	5	34	< 0.8	26	5	22	9	< 1.5	39	< 1	27	19
		14512	10 - 20	< 0.8	< 5	35	< 0.8	27	4	17	7	< 1.5	35	< 1	26	18
Area C soil	5037377	14513	0 - 5	< 0.8	< 5	37	< 0.8	29	6	17	6	< 1.5	27	< 1	28	22
Table F (results in bold)				1.0	14	190	1.0	67	19	56	55	2.5	43	1.4	91	150
Table A (results in bold and underlined)				13	20	750	12	750	40	225	200	5.0	150	10	200	600
< - less than the Method Detection Limit. Al, Ca, Fe, Mg, Mn, and Sr results can be found in Table 4.1.																

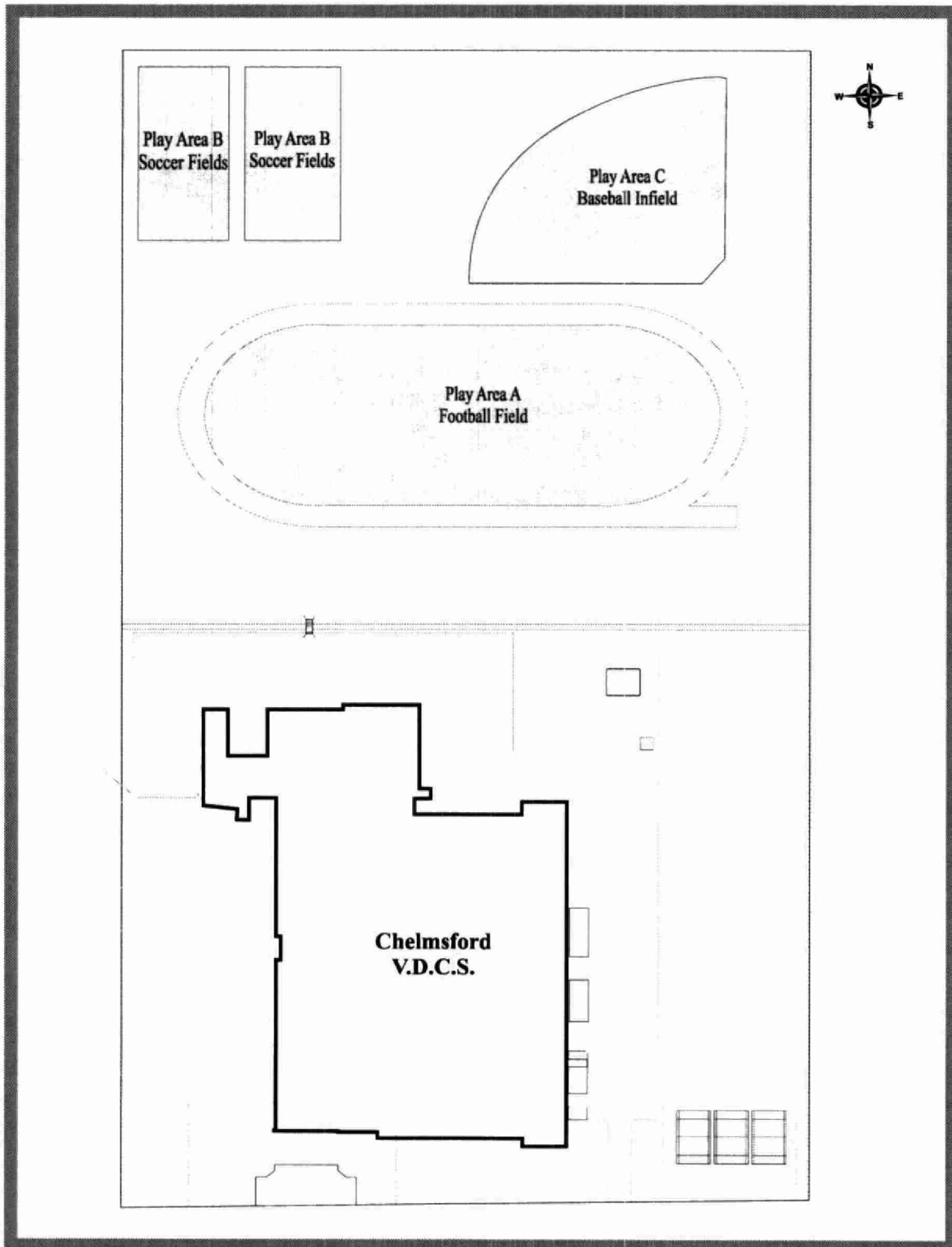


Figure B2.1.7: Chelmsford Valley District School Sampling Locations - 2001.

2.1.8 Churchill Public School - Rainbow District School Board 1722 Fielding Street, Sudbury

Churchill Public School was sampled on July 28, 2001. Figure B2.1.8 details the sampling locations at this property. Samples were taken from six areas on the school property. Area A corresponds to the shared baseball diamond outfields on the west side of the school building. Areas B and C correspond to the south and north baseball diamond infields, respectively. Area E corresponds to the baseball diamond outfield on the north east end of the school property and Area F corresponds to the baseball diamond infield at the same location. Due to the compacted nature of these baseball diamonds, it was only possible to sample the surface soil (0-5 cm). Area D corresponds to the sand in the landing area of the long jump pit. Due to the constant mixing of the sand and homogeneous nature of the sanded areas, sand samples were collected with hand trowels to represent the 0-15 cm depth. All data were compared with the MOE Table F Ontario Soil Background Criteria and Table A Effects Based Soil Criteria (MOE 1997).

Metal concentrations were not elevated in the sand of the landing area of the long jump pit. The sand present is not likely native to the school property and is believed to have been introduced when the play area was constructed. Thus the sand was not expected to have elevated metal concentrations. Nickel (Ni) and copper (Cu) concentrations were elevated above the MOE Table F Ontario Soil Background Criteria at all other soil sampling locations at this property. Nickel, copper, and cobalt (Co) concentrations were also elevated above the MOE Table A Effects Based Soil Criteria in the grassed area of the baseball diamond outfield located on the northeast end of the school property. The highest nickel, copper and cobalt concentrations found on this property were 420, 300, and 42 ppm, respectively. All other metals listed, as well as aluminum (Al), calcium (Ca), iron (Fe), magnesium (Mg), manganese (Mn), and strontium (Sr) which are not listed, were below the MOE Table F Ontario Soil Background Criteria.

These results are higher than those reported historically. Previous MOE sampling of undisturbed soils approximately 1 km north of Churchill Public School, Station 43 of the MOE Sudbury 2000 Report for the City of Greater Sudbury (MOE 2001), indicated nickel, copper, and cobalt surface soil concentrations as high as 190, 210, and 12, respectively. Historic MOE sampling in the Sudbury area was of undeveloped surface soils which may not be representative of the materials sampled on this property.

Table B2.18: Concentration of 13 Elements in Soil in µg/g Collected at Churchill Public School, 1722 Fielding Street, Sudbury - 2001

Map ID	Station	Sample Number	Soil Depth	Sb	As	Ba	Cd	Cr	Co	Cu	Pb	Mo	Ni	Se	V	Zn
Area A grass	5037166	14448	0 - 5	< 0.8	6	39	< 0.8	30	8	100	18	< 1.5	120	1	27	28
		14449	0 - 5	< 0.8	< 5	44	0.8	36	9	130	28	< 1.5	140	1	29	32
Area B soil	5037167	14450	0 - 5	< 0.8	< 5	40	< 0.8	41	13	100	14	< 1.5	120	< 1	31	42
Area C soil	5037168	14451	0 - 5	< 0.8	< 5	26	< 0.8	25	8	52	7	< 1.5	59	< 1	26	23
Area D sand	5037169	14452	0 - 15	< 0.8	< 5	18	< 0.8	22	5	12	2	< 1.5	18	< 1	23	14
Area E grass	5037170	14453	0 - 5	< 0.8	8	40	< 0.8	38	42	300	34	< 1.5	420	1	32	69
		14454	0 - 5	< 0.8	6	44	< 0.8	34	34	220	21	< 1.5	320	1	33	54
Area F soil	5037171	14455	0 - 5	< 0.8	7	40	< 0.8	34	14	110	17	< 1.5	120	1	32	75
Table F (results in bold)				1.0	14	190	1.0	67	19	56	55	2.5	43	1.4	91	150
Table A (results in bold and underlined)				13	20	750	12	750	40	225	200	5.0	150	10	200	600
< - less than the Method Detection Limit.				Al, Ca, Fe, Mg, Mn, and Sr results can be found in Table 4.1.												

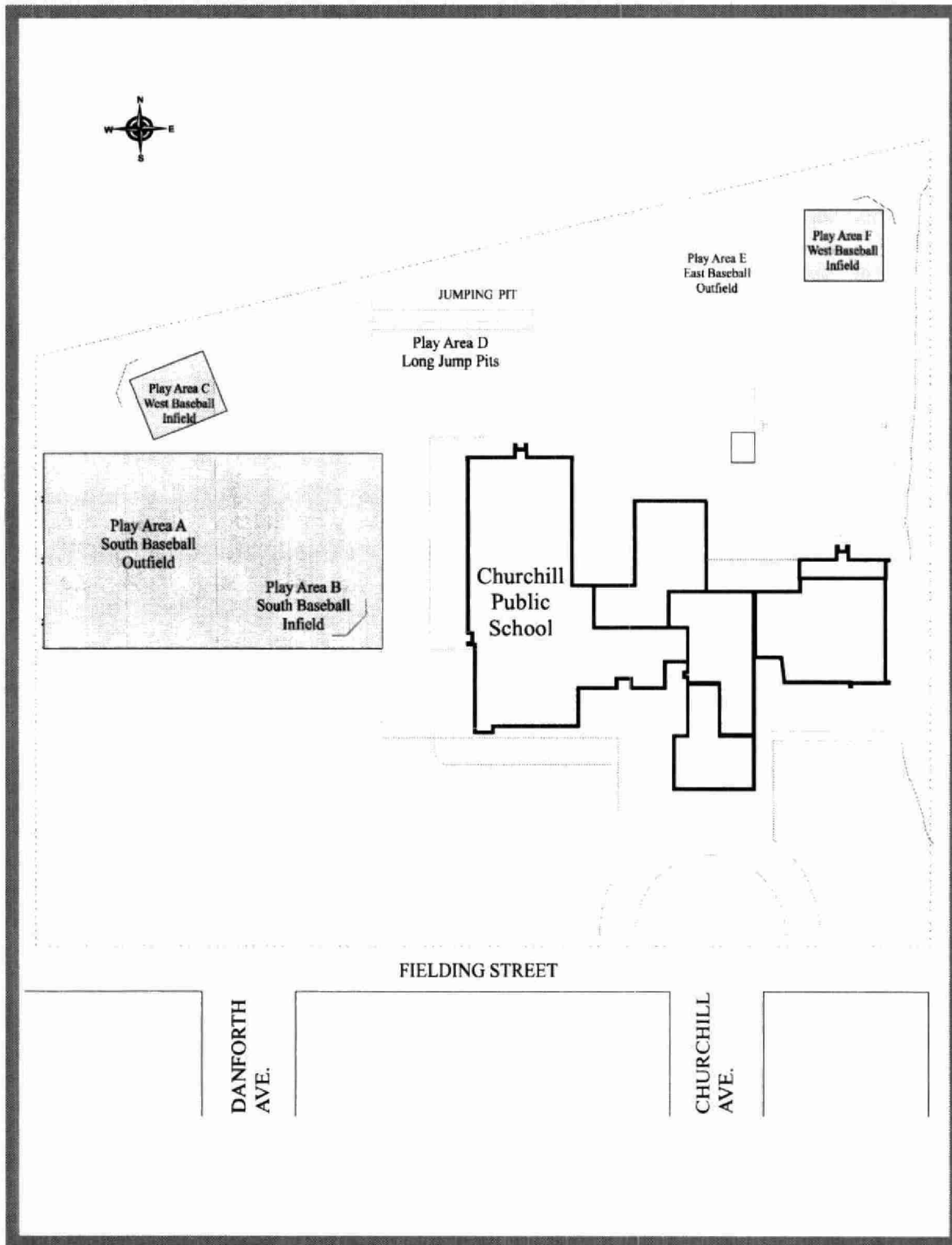


Figure B2.1.8: Churchill Public School Sampling Locations - 2001

2.1.9 Confederation Secondary School - Rainbow District School Board 1918 Main Street West, Val Caron

Confederation Secondary School was sampled on July 23, 2001. Figure B2.1.9 details the sampling locations at this property. Samples were taken from two areas on the school property. Area A corresponds to the grassed area of the soccer field and Area B corresponds to the worn areas at the north and south goal posts. Due to the compacted nature of the soccer field, it was only possible to sample the surface soil (0-5 cm). All data were compared with the MOE Table F Ontario Soil Background Criteria and Table A Effects Based Soil Criteria (MOE 1997).

Nickel and lead concentrations were elevated above the MOE Table F Ontario Soil Background Criteria in the surface soil of the grassed soccer field, with the highest nickel and lead concentrations being 74 and 170 ppm, respectively. All other metals listed, as well as aluminum (Al), calcium (Ca), iron (Fe), magnesium (Mg), manganese (Mn), and strontium (Sr) which are not listed, were below the MOE Table F Ontario Soil Background Criteria. There were no exceedences of the MOE Table A Effects Based Soil Criteria at this property.

These nickel soil results are lower than those reported historically, while the lead soil results are higher than previously reported. Previous MOE sampling of undisturbed soils approximately 1 km northwest and 2 km south southeast of Confederation Secondary School, Stations 15 and 340, respectively, of the MOE Sudbury 2000 Report for the City of Greater Sudbury (MOE 2001), indicated nickel and lead concentrations of 140 and 90 ppm, respectively. Historic MOE sampling in the Sudbury area was of undeveloped surface soils which may not be representative of the materials sampled on this property.

Table B2.1.9: Concentration of 13 Elements in Soil in µg/g Collected at Confederation Secondary School, 1918 Main Street West, Val Caron - 2001																
Map ID	Station	Sample Number	Soil Depth	Sb	As	Ba	Cd	Cr	Co	Cu	Pb	Mo	Ni	Se	V	Zn
Area A grass	5037294	14797	0 - 5	< 0.8	< 5	35	< 0.8	57	5	40	170	< 1.5	54	< 1	22	23
		14798	0 - 5	< 0.8	< 5	38	< 0.8	36	5	52	77	< 1.5	74	< 1	20	26
Area B soil	5037295	14799	0 - 5	< 0.8	< 5	27	< 0.8	26	3	26	21	< 1.5	38	< 1	26	17
Table F (results in bold)				1.0	14	190	1.0	67	19	56	55	2.5	43	1.4	91	150
Table A (results in bold and underlined)				13	20	750	12	750	40	225	200	5.0	150	10	200	600
< - less than the Method Detection Limit.																
Al, Ca, Fe, Mg, Mn, and Sr results can be found in Table 4.1.																

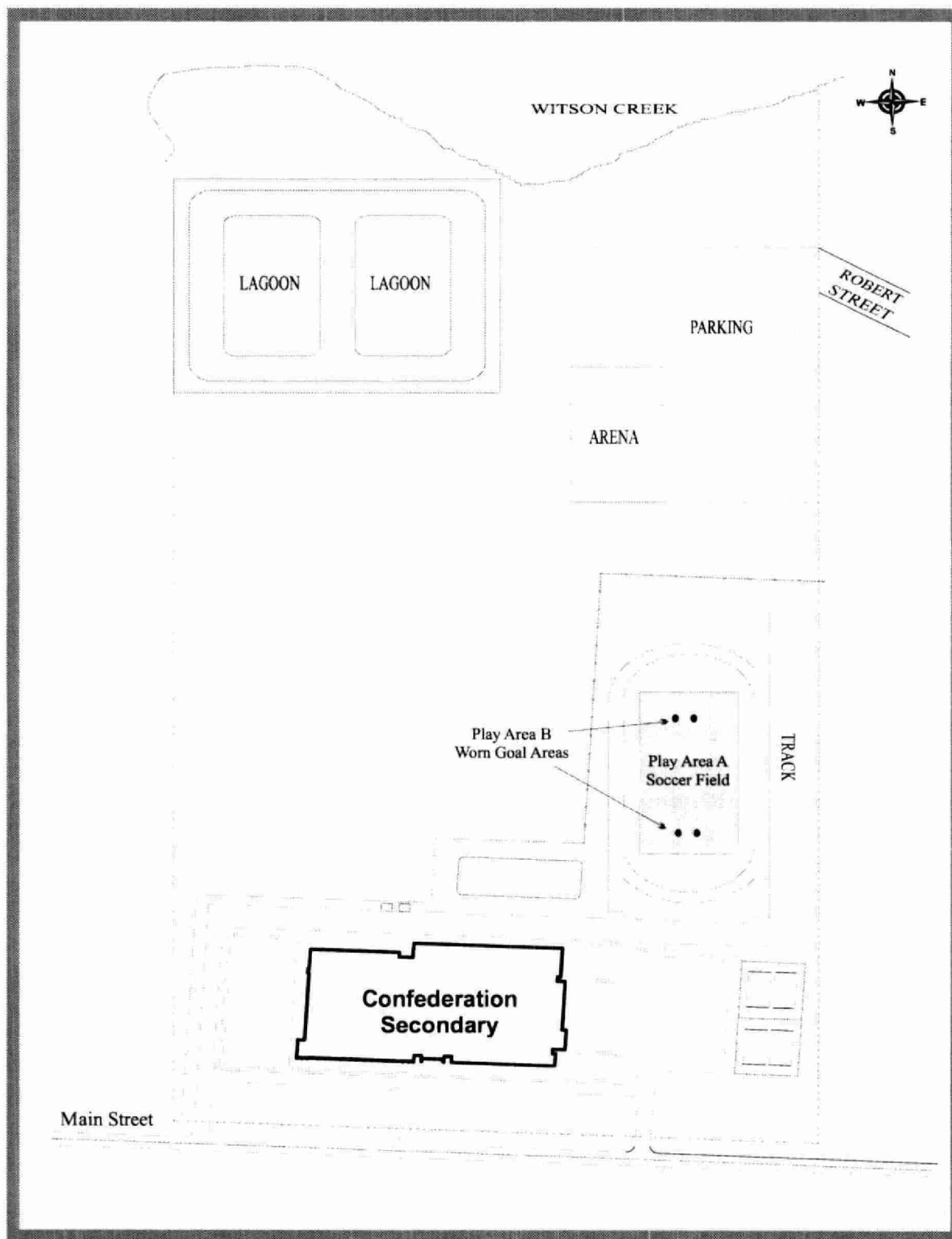


Figure B2.1.9: Confederation Secondary School Sampling Locations - 2001

2.1.10 Copper Cliff Public School - Rainbow District School Board

50 School Street, Copper Cliff

Copper Cliff Public School was sampled on July 21, 2001. Figure B2.1.10 details the sampling locations at this property. Samples were taken from five areas on the school property. Area A corresponds to the large grassed area in the centre of the property. Areas B and C correspond to sand samples beneath the north and south play structures, respectively. Due to the constant mixing of sand and homogenous nature of the sanded areas, sand samples were collected with hand trowels to represent the 0-15 cm depth. Area D corresponds to the baseball diamond outfield and Area E corresponds to the grassed baseball diamond infield. Due to the compacted nature of Area E, it was only possible to sample the surface soil (0-5 cm). Areas D and E were sampled again on September 17th, 2001 as part of Gerry Mills Memorial Park. See Appendix C for re-sampling results. All data were compared with the MOE Table F Ontario Soil Background Criteria and Table A Effects Based Soil Criteria (MOE 1997).

Metal concentrations were not elevated in the sand beneath the play structures. The sand present is not likely native to the school property and is believed to have been introduced when the sanded play areas were constructed. Thus the sand was not expected to have elevated metal concentrations. Nickel and copper concentrations were elevated above the MOE Table A Effects Based Soil Criteria at all other soil locations at this property. Arsenic, cobalt and selenium were also elevated above the Table A Effects Based Soil Criteria at selected sites, while antimony, cadmium, and lead exceeded the Table F Ontario Soil Background Criteria at selected sites. The highest nickel and copper concentrations, 2500 and 2900 ppm, respectively, occurred in the surface soil of the large grassed area (Area A). Depth samples were collected for Areas A and D only and in both cases, nickel and copper concentrations were highest at the surface and decreased with increasing depths. This observation is indicative of atmospheric deposition. All other metals listed, as well as aluminum (Al), calcium (Ca), iron (Fe), magnesium (Mg), manganese (Mn), and strontium (Sr) which are not listed, were below the MOE Table F Ontario Soil Background Criteria.

These soil results are consistent with those reported historically. Previous MOE sampling of undisturbed soils approximately 1 km north, 1 km east southeast, and 1 km southeast of Copper Cliff Public School, Stations 87, 96, and 106, respectively, of the MOE Sudbury 2000 Report for the City of Greater Sudbury (MOE 2001), indicated soil nickel and copper levels as high as 2125 and 2800 ppm, respectively. The nickel and copper levels found in the surface soil of the grassed area at the Copper Cliff Public School are slightly higher than those found historically. Historic MOE sampling in the Sudbury area was of undeveloped surface soils which may not be representative of the materials sampled on this property.

Table B2.1.10: Concentration of 13 Elements in Soil in µg/g Collected at Copper Cliff Public School, 50 School Street, Copper Cliff - 2001																
Map ID	Station	Sample Number	Soil Depth	Sb	As	Ba	Cd	Cr	Co	Cu	Pb	Mo	Ni	Se	V	Zn
Area A grass	5037254	14670	0 - 5	< 0.8	<u>32</u>	82	3.1	48	<u>80</u>	<u>2900</u>	100	1.6	<u>2500</u>	<u>12</u>	28	110
		14671	0 - 5	< 0.8	<u>37</u>	76	2.6	54	<u>80</u>	<u>2500</u>	90	< 1.5	<u>2500</u>	8	33	110
		14672	5 - 10	1.5	<u>65</u>	83	1.1	39	<u>38</u>	<u>1100</u>	34	< 1.5	<u>1600</u>	4	31	51
		14673	5 - 10	1.6	<u>77</u>	97	1.4	45	<u>46</u>	<u>1300</u>	41	< 1.5	<u>1900</u>	6	34	68
		14674	10 - 20	1	<u>35</u>	63	< 0.8	28	11	<u>190</u>	7	< 1.5	<u>260</u>	1	28	30
		14675	10 - 20	1.1	<u>44</u>	58	< 0.8	27	14	<u>260</u>	11	< 1.5	<u>370</u>	1	27	27
Area B sand	5037255 Slide	14676	0 - 15	< 0.8	< 5	28	< 0.8	35	9	47	4	< 1.5	43	< 1	37	24
		14677	0 - 15	< 0.8	< 5	26	< 0.8	35	9	36	4	< 1.5	34	< 1	36	23
	5037256 Climbers	14678	0 - 15	< 0.8	< 5	26	< 0.8	33	8	43	4	< 1.5	38	< 1	33	22
		14679	0 - 15	< 0.8	< 5	22	< 0.8	32	8	27	3	< 1.5	28	< 1	32	21
	5037257 Swings	14680	0 - 15	< 0.8	< 5	25	< 0.8	34	8	39	4	< 1.5	34	< 1	36	23
		14681	0 - 15	< 0.8	< 5	24	< 0.8	33	8	26	3	< 1.5	24	< 1	34	22
Area C sand	5037258 Climbers	14682	0 - 15	< 0.8	< 5	27	< 0.8	35	8	34	4	< 1.5	27	< 1	36	21
		14683	0 - 15	< 0.8	< 5	27	< 0.8	32	9	29	4	< 1.5	30	< 1	33	21
	5037259 Climbers	14684	0 - 15	< 0.8	< 5	26	< 0.8	34	9	32	3	< 1.5	29	< 1	34	21
		14685	0 - 15	< 0.8	< 5	27	< 0.8	34	9	34	3	< 1.5	33	< 1	34	21
Area D grass	5037260* Baseball Outfield	14686	0 - 5	< 0.8	<u>24</u>	37	3.1	24	<u>54</u>	<u>2000</u>	96	< 1.5	<u>1700</u>	7	16	49
		14687	0 - 5	< 0.8	<u>28</u>	32	2.6	20	<u>45</u>	<u>1600</u>	51	< 1.5	<u>1500</u>	5	16	39
		14688	5 - 10	1.4	<u>66</u>	81	1.6	33	<u>39</u>	<u>980</u>	33	< 1.5	<u>1100</u>	7	34	57
		14689	5 - 10	1.8	<u>94</u>	76	2.4	38	<u>42</u>	<u>940</u>	55	< 1.5	<u>1100</u>	9	33	67
		14690	10 - 20	< 0.8	<u>36</u>	36	< 0.8	23	15	<u>190</u>	11	< 1.5	<u>250</u>	3	26	26
		14691	10 - 20	0.9	<u>52</u>	42	1.1	15	23	<u>540</u>	19	< 1.5	<u>710</u>	4	22	19
Area E grass	5037261* Infield	14692	0 - 5	< 0.8	6	85	< 0.8	30	11	<u>250</u>	11	< 1.5	<u>250</u>	1	27	26
		14693	0 - 5	< 0.8	6	110	< 0.8	32	11	<u>270</u>	12	< 1.5	<u>260</u>	1	29	27
Table F (results in bold)				1.0	14	190	1.0	67	19	56	55	2.5	43	1.4	91	150
Table A (results in bold and underlined)				13	20	750	12	750	40	225	200	5.0	150	10	200	600
< - less than the Method Detection Limit.																
Al, Ca, Fe, Mg, Mn, and Sr results can be found in Table 4.1.																
* - the baseball diamond was sampled twice. Once as part of the school and the second time as Gerry Mills Memorial Park. (see Appendix C)																

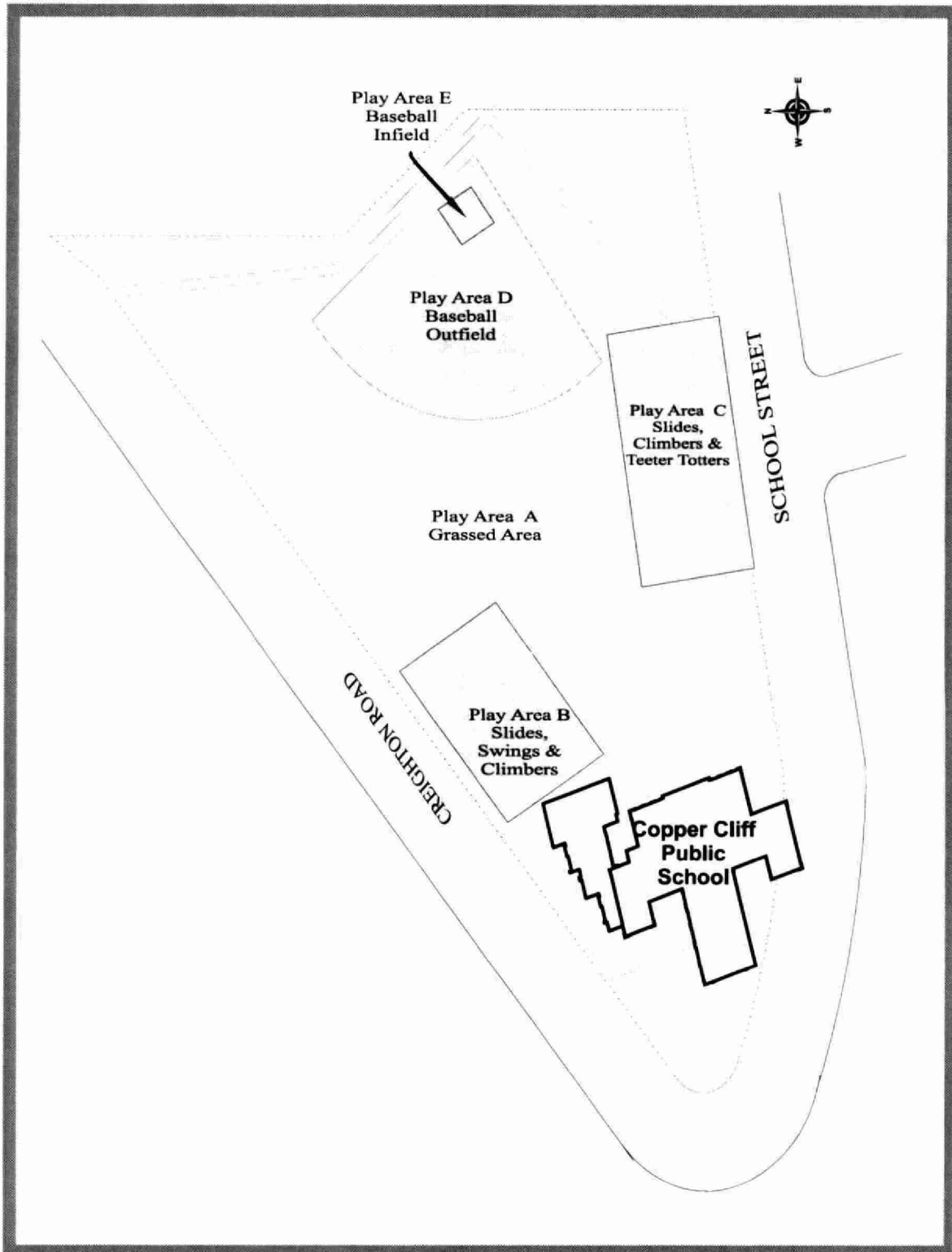


Figure B2.1.10: Copper Cliff Public School Sampling Locations - 2001.

2.1.11 Cyril Varney Public School - Rainbow District School Board 1545 Gary Street, Sudbury

Cyril Varney Public School was sampled on July 18, 2001. Figure B2.1.11 details the sampling locations at this property. Samples were taken from seven areas on the school property. Area A corresponds to the grassed area of the soccer field. Areas B and C correspond to the worn areas around the north and south soccer goal posts, respectively. Area D corresponds to the baseball diamond infield. Area F corresponds to the grassed area on the north side of the school building. Due to the compacted nature of Areas A, B, C, D, and F it was only possible to sample to depth (10 - 20 cm) in one replicate of the soccer field and the surface soil layer (0 - 5 cm) at the goal posts, baseball diamond infield, and north grassed area, respectively. Areas E and G correspond to the sand samples that were collected below the play structure and at the landing area of the long jump pit, respectively. Due to the constant mixing of the sand and the homogeneous nature of the sanded areas, sand samples were collected with hand trowels to represent the 0 - 15 cm depth. All data were compared with the MOE Table F Ontario Soil Background Criteria and Table A Effects Based Soil Criteria (MOE 1997).

Table B2.1.11: Concentration of 13 Elements in Soil in µg/g Collected at Cyril Varney Public School, 1545 Gary Street, Sudbury - 2001																	
Map ID	Station	Sample Number	Soil Depth	Sb	As	Ba	Cd	Cr	Co	Cu	Pb	Mo	Ni	Se	V	Zn	
Area A grass	5037220	14367	0 - 5	< 0.8	7	41	< 0.8	28	6	46	11	< 1.5	66	< 1	26	27	
		14368	0 - 5	< 0.8	7	37	< 0.8	29	6	38	10	< 1.5	60	< 1	26	24	
		14369	5 - 10	< 0.8	< 5	23	< 0.8	22	5	22	5	< 1.5	35	< 1	21	15	
		14370	5 - 10	< 0.8	7	39	< 0.8	34	7	25	9	< 1.5	45	< 1	32	22	
		14380	10 - 20	< 0.8	< 5	21	< 0.8	28	11	92	12	< 1.5	87	< 1	27	28	
Area B soil	5037221	14371	0 - 5	< 0.8	< 5	23	< 0.8	28	8	26	4	< 1.5	28	< 1	31	20	
Area C soil	5037222	14372	0 - 5	< 0.8	6	39	< 0.8	29	7	77	25	< 1.5	78	< 1	25	24	
Area D soil	5037223	14373	0 - 5	< 0.8	5	43	1	35	11	160	54	< 1.5	160	2	24	36	
		14374	0 - 5	< 0.8	< 5	32	< 0.8	33	6	51	29	< 1.5	67	< 1	27	23	
Area E sand	5037224	14375	0 - 15	< 0.8	< 5	17	< 0.8	22	7	35	82	< 1.5	80	< 1	13	13	
		14376	0 - 15	< 0.8	< 5	15	< 0.8	11	4	9	9	< 1.5	27	< 1	11	9	
Area F grass	5037225	14377	0 - 5	< 0.8	< 5	32	< 0.8	24	4	26	12	< 1.5	35	< 1	24	18	
		14378	0 - 5	< 0.8	5	31	< 0.8	27	6	39	12	< 1.5	53	< 1	26	21	
Area G sand	5037226	14379	0 - 15	< 0.8	5	30	< 0.8	21	6	39	6	< 1.5	51	< 1	23	18	
Table F (results in bold)				1	14	190	1	67	19	56	55	2.5	43	1.4	91	150	
Table A (results in bold and underlined)				13	20	750	12	750	40	225	200	5	150	10	200	600	
< - less than the Method Detection Limit.				Al, Ca, Fe, Mg, Mn, and Sr results can be found in Table 4.1.													

Nickel (Ni) and copper (Cu) concentrations were elevated above the MOE Table F Ontario Soil Background Criteria in the sand beneath the play structure and at the landing of the long jump pit. The sand present is not likely native to the school property and is believed to have been introduced when the play areas were constructed. Thus the sand was not expected to have elevated metal concentrations. Nickel (Ni), copper (Cu), and lead (Pb) concentrations were elevated above the MOE Table F Ontario Soil Background Criteria at selected sites at this property. There was only one sample with a nickel concentration which was elevated above the MOE Table A Effects Based Soil Criteria at 160 ppm. The highest nickel and copper concentrations were found in the surface soil of the baseball diamond infield (Area D) both with concentrations of 160 ppm. The highest lead value,

82 ppm, was found in the first replicate of the sampling of sand from below the play structure. This replicate was collected from the perimeter of the sanded play area which is in close proximity to the natural soil and grassed areas (Areas D and F) of the property. Therefore, it is possible that soil particles may have been sampled along with the sand. All other metals listed, as well as aluminum (Al), calcium (Ca), iron (Fe), magnesium (Mg), manganese (Mn), and strontium (Sr) which are not listed, were below the MOE Table F Ontario Soil Background Criteria.

These soil nickel and copper results are slightly lower than those reported historically, while the elevated lead result is higher than previously reported. Previous MOE sampling of undisturbed soils approximately 1.5 km northwest and 1 km southwest of Cyril Varney Public School, Stations 6 and 43 of the MOE 2000 Sudbury Report for the City of Greater Sudbury (MOE 2001), indicated nickel and copper surface soils concentrations as high as 190 and 210 ppm, respectively. The highest lead concentration found historically at these sites was 39 ppm. Historic MOE sampling in the Sudbury area was of undeveloped surface soils which may not be representative of the materials sampled on this property.

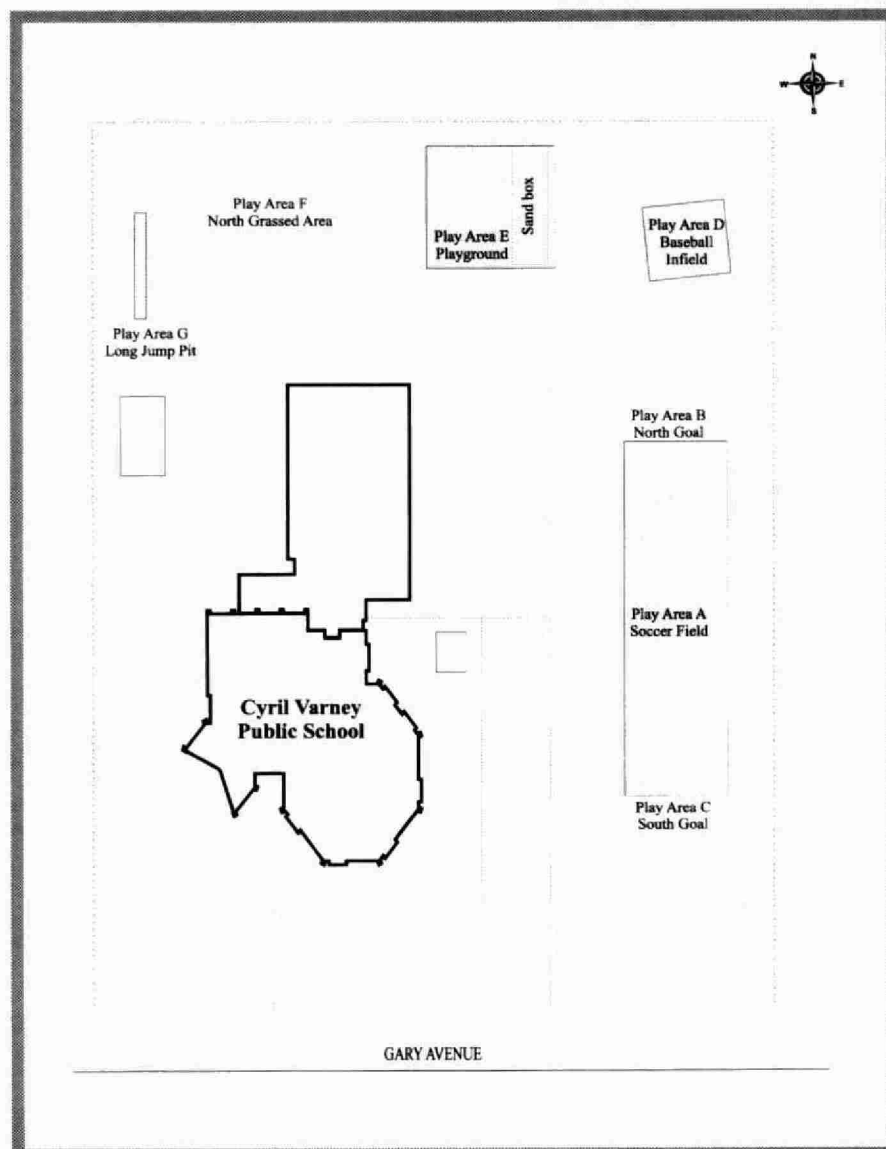


Figure B2.1.11: Cyril Varney Public School Sampling Locations - 2001.

2.1.12 Ernie Checkeris Public School - Rainbow District School Board 1570 Agincourt Avenue, Sudbury

Ernie Checkeris Public School was sampled on July 22, 2001. Figure B2.1.12 details the sampling locations at this property. Samples were taken from four areas on the school property. Area A corresponds the grassed area of the soccer field. Area B corresponds to the baseball diamond infield. Due to the compacted nature of this area, it was only possible to sample the surface layer (0-5 cm). Areas C and D correspond to sand samples that were taken below the play structure and in the landing area of the long jump pit, respectively. Due to the constant mixing of sand and the homogeneous nature of the sanded areas, sand samples were collected with a hand trowel to represent the 0-15 cm depth. All data were compared with the MOE Table F Ontario Soil Background Criteria and Table A Effects Based Soil Criteria (MOE 1997).

Metal concentrations were not elevated in the sand beneath the play structure or at the landing area of the long jump pit. The sand present is not likely native to the school property and is believed to have been introduced when the sanded play areas were constructed. Thus the sand was not expected to have elevated metal concentrations. Nickel (Ni), and copper (Cu) concentrations were elevated above the MOE Table F Ontario Soil Background Criteria at all other sampling locations at this property. Nickel concentrations in the surface soil of the soccer field were also elevated above the MOE Table A Effects Based Soil Criteria. The highest nickel and copper concentrations, 160 and 130 ppm, respectively, were found in the surface soil of the soccer field. All other metals listed, as well as aluminum (Al), calcium (Ca), iron (Fe), magnesium (Mg), manganese (Mn), and strontium (Sr) which are not listed, were below the MOE Table F Ontario Soil Background Criteria.

These nickel and copper soil results are lower than those reported historically. Previous MOE sampling of undisturbed soils approximately 1 km northeast and 1.5 km south of Ernie Checkeris Public School, Stations 6 and 86, respectively, of the MOE Sudbury 2000 Report for the City of Greater Sudbury (MOE 2001), indicated nickel and copper concentrations as high as 230 and 200 ppm, respectively. Historic MOE sampling in the Sudbury area was of undeveloped surface soils which may not be representative of all materials sampled on this property.

Table B2.1.12: Concentration of 13 Elements in Soil in µg/g Collected at Ernie Checkeris Public School, 1570 Agincourt Avenue, Sudbury - 2001																
Map ID	Station	Sample Number	Soil Depth	Sb	As	Ba	Cd	Cr	Co	Cu	Pb	Mo	Ni	Se	V	Zn
Area A grass	5037208	14762	0 - 5	< 0.8	5	43	< 0.8	29	8	120	31	< 1.5	160	< 1	28	33
		14763	0 - 5	< 0.8	6	43	< 0.8	29	7	130	27	< 1.5	150	< 1	29	37
		14764	5 - 10	< 0.8	< 5	36	< 0.8	26	5	56	7	< 1.5	70	< 1	30	34
		14765	5 - 10	< 0.8	< 5	33	< 0.8	20	5	67	7	< 1.5	96	< 1	25	23
		14766	10 - 20	< 0.8	< 5	33	< 0.8	21	4	34	5	< 1.5	66	< 1	26	19
		14767	10 - 20	< 0.8	5	37	< 0.8	23	5	50	7	< 1.5	67	< 1	28	21
Area B gravel	5037209	14768	0 - 5	< 0.8	5	38	< 0.8	22	5	61	8	< 1.5	93	< 1	29	35
Area C sand	5037210	14769	0 - 15	< 0.8	< 5	22	< 0.8	25	6	21	3	< 1.5	27	< 1	34	21
		14770	0 - 15	< 0.8	< 5	21	< 0.8	24	6	19	3	< 1.5	24	< 1	28	21
Area D sand	5037211	14771	0 - 15	< 0.8	< 5	25	< 0.8	26	6	24	3	< 1.5	30	< 1	34	20
Table F (results in bold)				1.0	14	190	1.0	67	19	56	55	2.5	43	1.4	91	150
Table A (results in bold and underlined)				13	20	750	12	750	40	225	200	5.0	150	10	200	600
< - less than the Method Detection Limit.																
Al, Ca, Fe, Mg, Mn, and Sr results can be found in Table 4.1.																

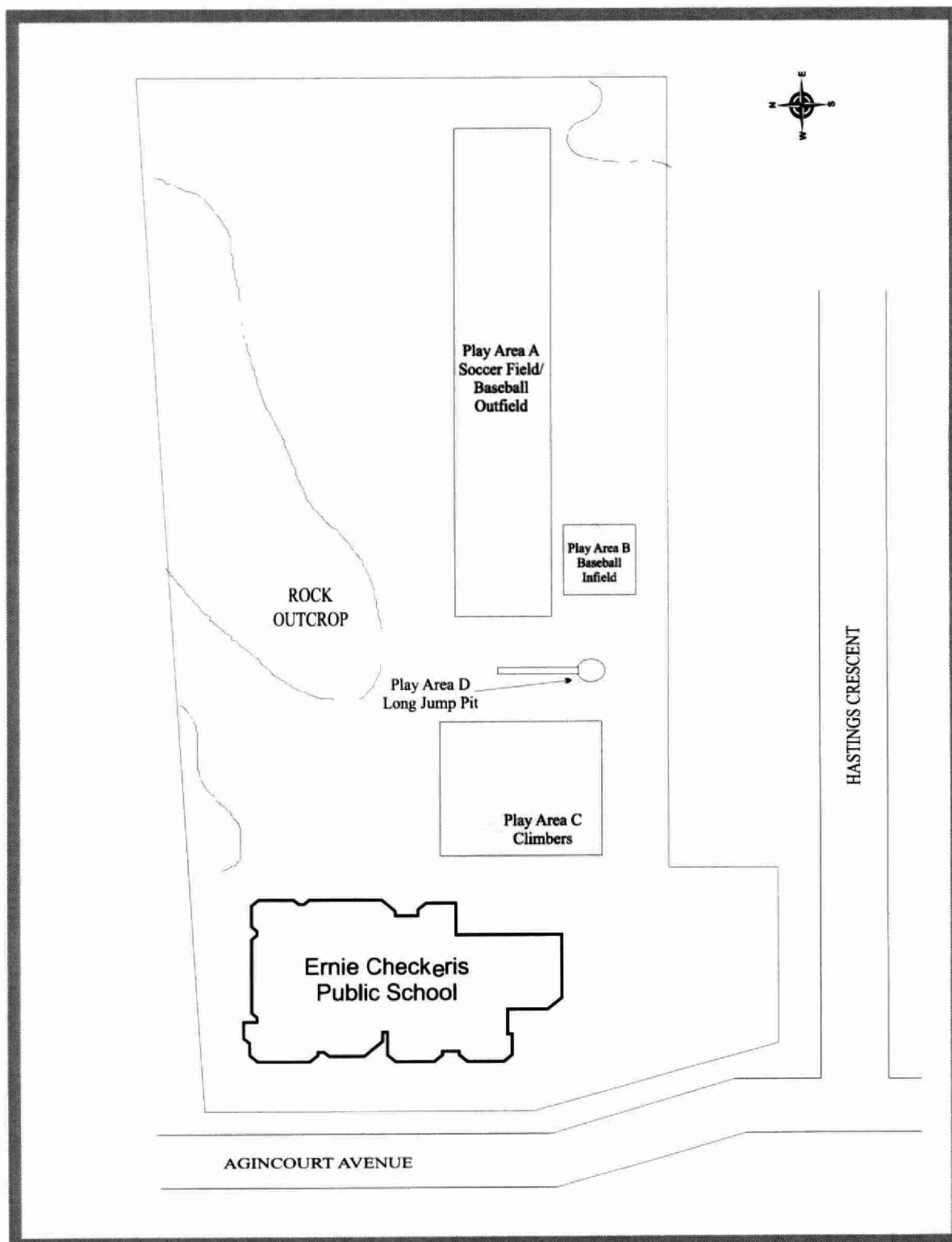


Figure B2.1.12: Ernie Checkeris Public School Sampling Locations - 2001.

2.1.13 Falconbridge Public School - Rainbow District School Board 72 Edison Street, Falconbridge

Falconbridge Public School was sampled on July 22, 2001 and has since closed at this location. Figure B2.1.13 details the sampling locations at this property. Samples were taken from three areas on the school property. Area A corresponds to the baseball diamond outfield. Area B corresponds to the baseball diamond infield. Due to the compacted nature of Areas A and B, it was only possible to sample the surface soil (0 - 5 cm) layer. Area C corresponds to the sand samples that were taken from the sanded play area. Due to the constant mixing of sand and the homogeneous nature of the sanded areas, sand samples were collected with hand trowels to represent the 0-15 cm depth. All data were compared with the MOE Table F Ontario Soil Background Criteria and Table A Effects Based Soil Criteria (MOE 1997).

Metal concentrations were not elevated in the sanded play area, Area C. The sand present is not likely native to the school property and is believed to have been introduced when the play area was constructed. Thus the sand was not expected to have elevated metal concentrations. Nickel (Ni) concentrations were elevated above the MOE Table F Ontario Soil Background Criteria at all other sample locations at this property, while copper (Cu) concentrations were elevated above the MOE Table F Ontario Soil Background Criteria at the baseball diamond outfield. The highest nickel and copper concentrations, 120 and 66 ppm, respectively, were found in the surface soil of the baseball diamond outfield. All other metals listed, as well as aluminum (Al), calcium (Ca), iron (Fe), magnesium (Mg), manganese (Mn), and strontium (Sr) which are not listed, were below the MOE Table F Ontario Soil Background Criteria. There were no exceedences of the MOE Table A Effects Based Soil Criteria at this property.

These soil results are much lower than those reported historically. Previous MOE sampling of undisturbed soils approximately 1 km southeast, 0.5 km northeast, and 0.5 km south of Falconbridge Public School, Stations 44, 22, and 36, respectively, of the MOE Sudbury 2000 Report for the City of Greater Sudbury (MOE 2001), indicate nickel and copper concentrations as high as 810 and 920 ppm, respectively. Historic MOE sampling in the Sudbury area was of undeveloped surface soils which may not be representative of the materials sampled on this property.

Table B2.1.13: Concentration of 13 Elements in Soil in µg/g Collected at Falconbridge Public School, 72 Edison Street, Falconbridge - 2001																
Map ID	Station	Sample Number	Soil Depth	Sb	As	Ba	Cd	Cr	Co	Cu	Pb	Mo	Ni	Se	V	Zn
Area A grass	5037357	14755	0 - 5	< 0.8	< 5	46	< 0.8	35	11	58	21	1.5	110	< 1	30	36
		14756	0 - 5	< 0.8	< 5	43	1	31	12	66	20	1.8	120	< 1	26	35
Area B soil	5037358	14757	0 - 5	< 0.8	< 5	26	< 0.8	31	13	46	11	< 1.5	61	< 1	32	27
Area C sand	5037359	14758	0 - 15	< 0.8	< 5	18	< 0.8	22	6	17	2	< 1.5	37	< 1	28	14
		14759	0 - 15	< 0.8	< 5	21	< 0.8	25	6	21	3	< 1.5	34	< 1	30	15
Table F (results in bold)				1.0	14	190	1.0	67	19	56	55	2.5	43	1.4	91	150
Table A (results in bold and underlined)				13	20	750	12	750	40	225	200	5.0	150	10	200	600
< - less than the Method Detection Limit.				Al, Ca, Fe, Mg, Mn, and Sr results can be found in Table 4.1.												

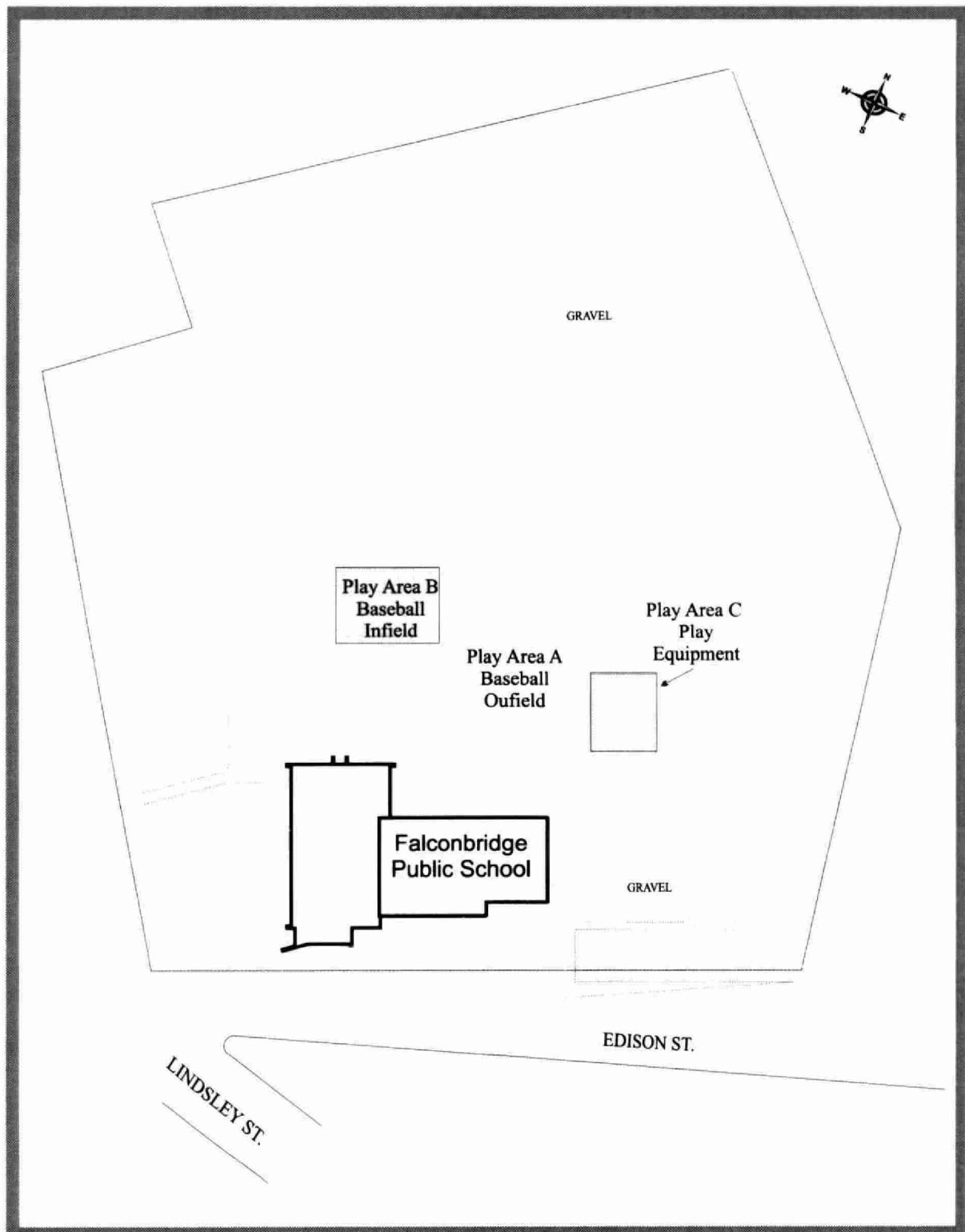


Figure B2.1.13: Falconbridge Public School Sampling Locations - 2001.

2.1.14 Gatchell School - Rainbow District School Board 31 Tuddenham Avenue, Sudbury

Gatchell School was sampled on July 6, 2001. Figure B2.1.14 details the sampling locations at this property. Samples were taken from five areas on the school property. Areas A and B correspond to sand samples that were taken from the west and east sand boxes on the south side of the school building, respectively. Due to the constant mixing of sand and the homogeneous nature of the sanded areas, sand samples were collected with hand trowels to represent the 0-15 cm depth. Areas C and D correspond to the west and east grassed areas, respectively, on the south side of the school building. Areas A, B, C, and D were separated from the parking lot and surrounding property by a chain linked fence. Following a discussion with the custodian of this property, it was learned that two years ago new fill, sand, and sod had been introduced to the property within the chain linked fence for landscaping purposes. For this reason, it was decided that soil samples should be taken of the grassed area outside of the fenced play area, Area E, to gain an understanding of undisturbed soil concentrations at this location. Due to the compacted nature of these grassed areas, it was only possible to sample the surface soil (0-5 cm). All data were compared with the MOE Table F Ontario Soil Background Criteria and Table A Effects Based Soil Criteria (MOE 1997).

Metal concentrations were elevated above the MOE Table F Ontario Soil Background Criteria in the sand collected from the west sand box but not from the east sand box. The sand present in not likely native to the school property and is known to have been introduced when these play areas were constructed. Thus the sand was not expected to have elevated metal concentrations. Nickel (Ni) concentrations were slightly elevated above the MOE Table F Ontario Soil Background Criteria for most of the samples from the grassed play areas within the chain link fence. Since new fill, sod, and sand had been recently added, none of the areas within the chain link fence was expected to have elevated metal concentrations. The highest concentrations of nickel (Ni), cobalt (Co), copper (Cu), lead (Pb), and selenium (Se), 380, 21, 530, 75, and 3.1 ppm, respectively, occurred in the grassed area outside of the chain link fence, Area E. This soil is believed to be native to the area and thus, it is not surprising that the metal concentrations, especially nickel and copper, are elevated above the MOE Table A Effects Based Soil Criteria. All other metals listed, as well as aluminum (Al), calcium (Ca), iron (Fe), magnesium (Mg), manganese (Mn), and strontium (Sr) which are not listed, were below the MOE Table F Ontario Soil Background Criteria.

Table B2.1.14: Concentration of 13 Elements in Soil in µg/g Collected at Gatchell School, 31 Tuddenham Avenue, Sudbury - 2001																
Map ID	Station	Sample Number	Soil Depth	Sb	As	Ba	Cd	Cr	Co	Cu	Pb	Mo	Ni	Se	V	Zn
Area A sand	5037098	14208	0 - 15	< 0.8	< 5	33	< 0.8	32	9	85	7	< 1.5	59	< 1	39	32
Area B sand	5037099	14209	0 - 15	< 0.8	< 5	24	< 0.8	22	6	26	3	< 1.5	31	< 1	28	14
Area C grass	5037100	14210	0 - 5	< 0.8	< 5	32	< 0.8	26	5	43	7	< 1.5	51	< 1	26	19
		14211	0 - 5	< 0.8	< 5	24	< 0.8	32	7	27	3	< 1.5	29	< 1	31	21
Area D grass	5037101	14212	0 - 5	< 0.8	< 5	31	< 0.8	26	5	38	7	< 1.5	47	< 1	25	18
		14213	0 - 5	< 0.8	< 5	31	< 0.8	25	5	43	6	< 1.5	54	< 1	24	18
Area E grass	5037102	14214	0 - 5	< 0.8	8	45	< 0.8	51	20	<u>530</u>	71	< 1.5	<u>360</u>	3.1	32	96
		14215	0 - 5	< 0.8	7	41	< 0.8	49	21	<u>480</u>	75	< 1.5	<u>380</u>	2.8	33	99
Table F (results in bold)				1.0	14	190	1.0	67	19	56	55	2.5	43	1.4	91	150
Table A (results in bold and underlined)				13	20	750	12	750	40	225	200	5.0	150	10	200	600
< - less than the Method Detection Limit.				Al, Ca, Fe, Mg, Mn, and Sr results can be found in Table 4.1.												

The soil metals concentrations from the play areas within the chain link fence are much lower than those reported historically, whereas the results from the original grassed area, Area E, are similar to those previously reported. Previous MOE sampling of undisturbed soils approximately 1.1 km west and 0.5 km south of Gatchell School, Stations 72 and 73, respectively, of the MOE Sudbury 2000 Report for the City of Greater Sudbury (MOE 2001), indicated nickel and copper concentrations as high as 370, and 340 ppm, respectively. The cobalt and lead results found at Area E of this site are higher than those reported historically. The highest surface soil concentrations of cobalt and lead previously reported were 16, and 21 ppm, respectively. Historic MOE sampling in the Sudbury area was of undeveloped surface soils which may not be representative of all materials sampled on this property.

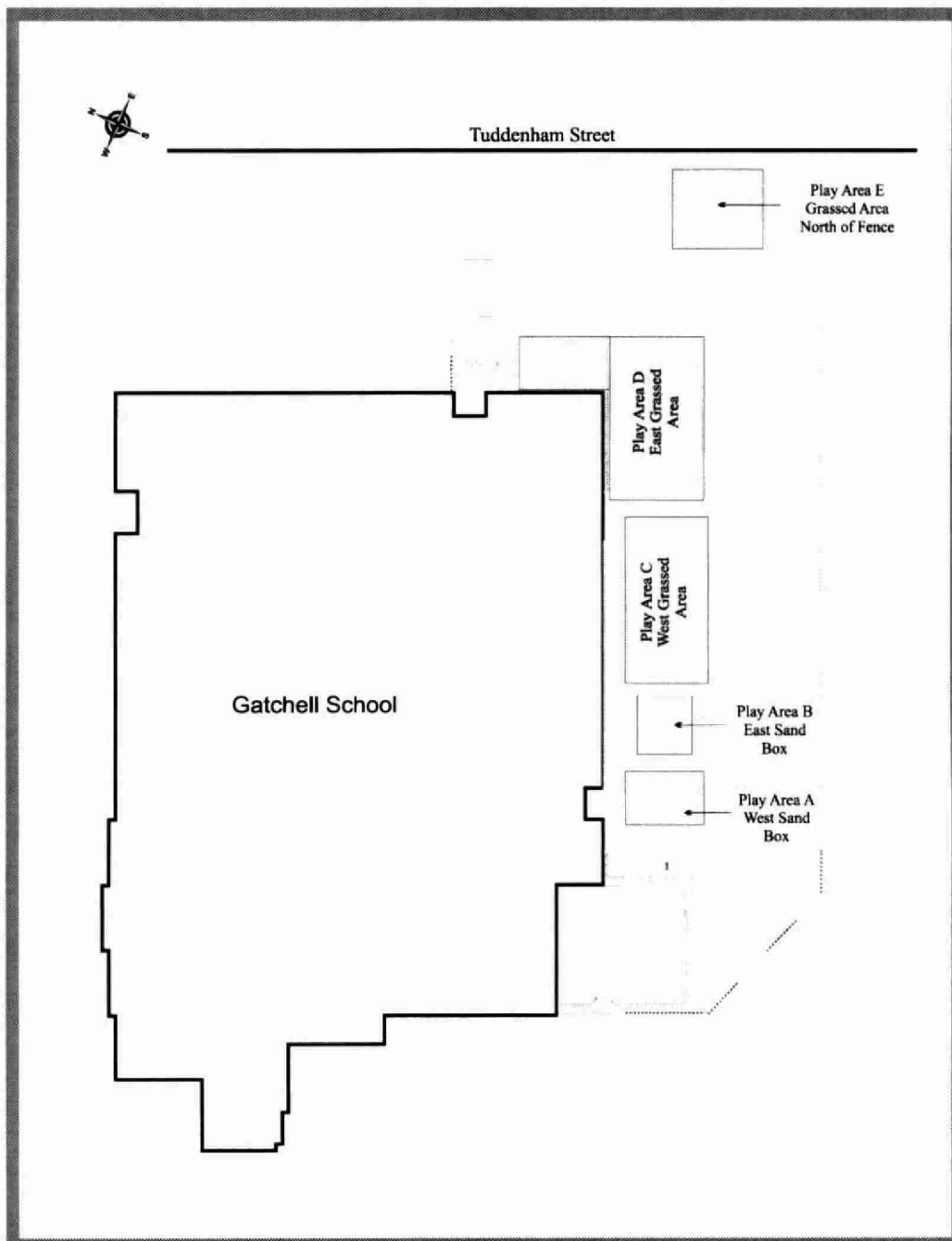


Figure B2.1.14: Gatchell School Sampling Locations - 2001.

2.1.15 George Vanier Public School - Rainbow District School Board 249 6th Avenue, Lively

George Vanier Public School was sampled on July 21, 2001. Figure B2.1.15 details the sampling locations at this property. Samples were taken from six areas on the school property. Areas A and F correspond to the west and east baseball diamond outfields, respectively. Areas B and E correspond to the west and east baseball diamond infield, respectively. Due to the compacted nature of the baseball diamonds, it was only possible to sample the surface soil (0-5 cm). Areas C and D correspond to the sand samples that were taken from below the west and east play structures, respectively. Due to the constant mixing of sand and the homogeneous nature of the sanded areas, sand samples were collected with hand trowels to represent the 0-15 cm depth. All data were compared with the MOE Table F Ontario Soil Background Criteria and Table A Effects Based Soil Criteria (MOE 1997).

Metals concentrations were not elevated in the sand beneath the two play structures. The sand present is not likely native to the school property and is believed to have been introduced when the sanded play areas were constructed. Thus the sand was not expected to have elevated metal concentrations. Nickel (Ni) concentrations were elevated above the MOE Table F Ontario Soil Background Criteria in the surface soil of all other sampling locations at this property. Copper (Cu), lead (Pb), cobalt (Co), cadmium (Cd), and selenium (Se) were also elevated above the MOE Table F Ontario Soil Background Criteria in the surface soil of the west baseball diamond outfield. This play area, Area A, also had the highest metals concentrations with nickel and copper concentrations, 630 and 370 ppm, respectively, elevated above the MOE Table A Effects Based Soil Criteria. All other metals listed, as well as aluminum (Al), calcium (Ca), iron (Fe), magnesium (Mg), manganese (Mn), and strontium (Sr) which are not listed, were below the MOE Table F Ontario Soil Background Criteria.

Table B2.1.15: Concentration of 13 Elements in Soil in µg/g Collected at George Vanier Public School, 249 6 th Avenue, Lively - 2001																
Map ID	Station	Sample Number	Soil Depth	Sb	As	Ba	Cd	Cr	Co	Cu	Pb	Mo	Ni	Se	V	Zn
Area A grass	5037248	14726	0 - 5	< 0.8	< 5	45	0.9	29	17	190	65	< 1.5	<u>320</u>	2	24	39
		14727	0 - 5	< 0.8	7	70	1.6	39	27	<u>370</u>	110	< 1.5	<u>630</u>	4	31	56
Area B gravel	5037249	14728	0 - 5	< 0.8	< 5	17	< 0.8	26	8	60	6	< 1.5	120	< 1	28	30
Area C sand	5037250	14729	0 - 15	< 0.8	< 5	23	< 0.8	29	7	19	3	< 1.5	26	< 1	28	19
Area D sand	5037251	14730	0 - 15	< 0.8	< 5	20	< 0.8	25	7	17	2	< 1.5	27	< 1	28	17
Area E gravel	5037252	14731	0 - 5	< 0.8	< 5	34	< 0.8	25	6	35	7	< 1.5	57	< 1	25	21
Area F grass	5037253	14732	0 - 5	< 0.8	< 5	24	< 0.8	21	6	43	8	< 1.5	68	< 1	20	21
		14733	0 - 5	< 0.8	< 5	32	< 0.8	24	7	67	13	< 1.5	110	< 1	23	26
Table F (results in bold)				1.0	14	190	1.0	67	19	56	55	2.5	43	1.4	91	150
Table A (results in bold and underlined)				13	20	750	12	750	40	225	200	5.0	150	10	200	600
< - less than the Method Detection Limit.																
Al, Ca, Fe, Mg, Mn, and Sr results can be found in Table 4.1.																

For Area A, the copper results are similar to those reported historically, whereas the nickel and lead results are higher than those reported historically. The remaining sampling locations have metals concentrations that are well below the concentrations reported previously for nearby locations. Previous MOE sampling of undisturbed soils approximately 0.8 km northwest of George Vanier Public School, Station 376 of the MOE Sudbury 2000 Report for the City of Greater Sudbury (MOE

2001), indicated nickel, copper and lead concentrations of 310, 350, and 46 ppm, respectively. Historic MOE sampling in the Sudbury area was of undeveloped surface soils which may not be representative of the materials sampled on this property.

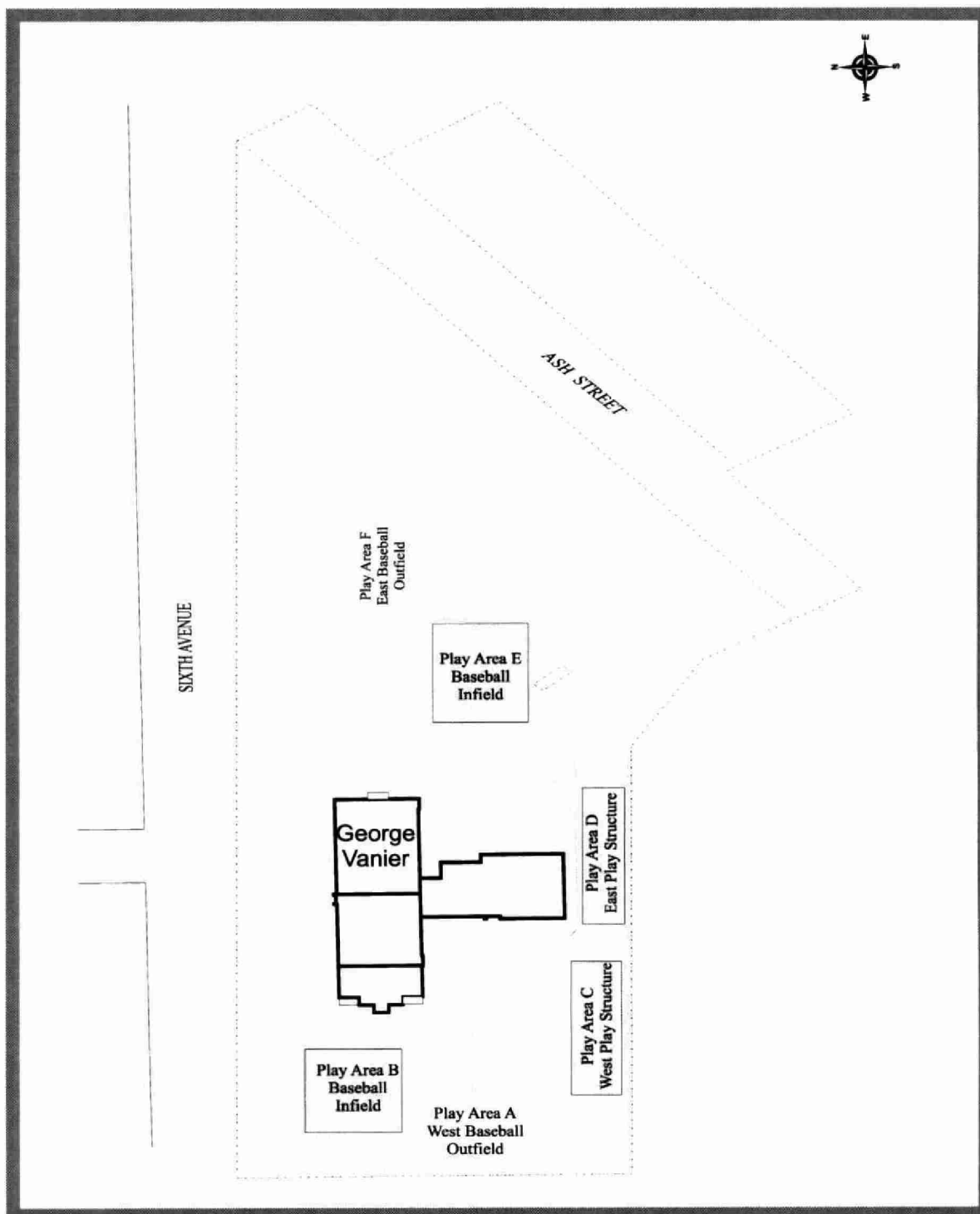


Figure B2.1.15: George Vanier Public School Sampling Locations - 2001

2.1.16 Jessie Hamilton Public School - Rainbow District School Board

16 Jessie Street, Lively

Jessie Hamilton Public School was sampled on July 21, 2001. Figure B2.1.16 details the sampling locations at this property. Samples were taken from eight areas on the school property. Areas A and B correspond to sand samples that were taken from below the play structure and from the landing areas of the long jump pits, respectively. Due to the constant mixing of sand and the homogeneous nature of the sanded areas, sand samples were collected with hand trowels to represent the 0-15 cm depth. Area C corresponds to the west baseball diamond infield. Area D corresponds to the grassed area of the soccer field. Areas E and F correspond to the worn areas around the west and east soccer goal posts, respectively. Areas G and H correspond to the east baseball diamond infield and outfield, respectively. Due to the compacted nature of the baseball diamonds and soccer field, it was only possible to sample the surface soil (0-5 cm). All data were compared with the MOE Table F Ontario Soil Background Criteria and Table A Effects Based Soil Criteria (MOE 1997).

Metal concentrations were not elevated in the sand beneath the play structures; however, nickel and copper concentrations were elevated above the MOE Table F Ontario Soil Background Criteria in the sand from the landing areas of the long jump pits. The sand present is not likely native to the school property and is believed to have been introduced when the play areas were constructed. Thus the sand was not expected to have elevated metal concentrations. The sanded landing areas of the long jump pits did not have a border separating them from the surrounding soils. Due to the close proximity of the long jump pits to the natural soil and grassed areas (Areas G and H) of the property, it is possible that soil particles may have been sampled along with the sand. Nickel (Ni) concentrations were elevated above the MOE Table F Ontario Soil Background Criteria in the surface soil of all other locations at this property, and above the MOE Table A Effects Based Soil Criteria in the surface soil of the soccer field and east baseball diamond outfield. Copper (Cu) was also elevated above the MOE Table F Ontario Soil Background Criteria in the surface soil of the soccer field and east baseball diamond. The highest nickel and copper concentrations, 260 and 130 ppm, respectively, were found in the surface soil of the soccer field and east baseball diamond. All other metals listed, as well as aluminum (Al), calcium (Ca), iron (Fe), magnesium (Mg), manganese (Mn), and strontium (Sr) which are not listed, were below the MOE Table F Ontario Soil Background Criteria.

These soil results are much lower than those reported historically. Previous MOE sampling of undisturbed soils approximately 100 m north of Jessie Hamilton Public School, Station 100 of the MOE Sudbury 2000 Report for the City of Greater Sudbury (MOE 2001), indicated nickel and copper concentration ranges of 57 to 700, and 35 to 568 ppm, respectively. Historic MOE sampling in the Sudbury area was of undeveloped surface soils which may not be representative of the materials sampled on this property.

Table B2.1.16: Concentration of 13 Elements in Soil in µg/g Collected at Jessie Hamilton Public School, 16 Jessie Street, Lively - 2001

Map ID	Station	Sample Number	Soil Depth	Sb	As	Ba	Cd	Cr	Co	Cu	Pb	Mo	Ni	Se	V	Zn
Area A sand	5037227	14694	0 - 15	< 0.8	< 5	22	< 0.8	27	7	17	3	< 1.5	22	< 1	27	18
		14695	0 - 15	< 0.8	< 5	24	< 0.8	30	6	16	3	< 1.5	22	< 1	34	21
Area B sand	5037228	14696	0 - 15	< 0.8	< 5	23	< 0.8	31	10	60	5	< 1.5	150	< 1	33	40
		14697	0 - 15	< 0.8	< 5	25	< 0.8	31	7	47	6	< 1.5	67	< 1	30	25
Area C soil	5037229	14698	0 - 5	< 0.8	< 5	46	< 0.8	24	5	36	7	< 1.5	60	< 1	26	27
		14699	0 - 5	< 0.8	< 5	46	< 0.8	25	5	37	7	< 1.5	63	< 1	27	37
Area D grass	5037230	14700	0 - 5	< 0.8	< 5	65	< 0.8	30	10	130	18	< 1.5	<u>260</u>	< 1	28	43
		14701	0 - 5	< 0.8	< 5	49	1.5	38	10	110	17	< 1.5	<u>240</u>	< 1	33	42
Area E soil	5037231	14702	0 - 5	< 0.8	< 5	46	< 0.8	42	8	60	10	< 1.5	96	< 1	36	49
Area F soil	5037232	14703	0 - 5	< 0.8	< 5	46	< 0.8	26	6	52	9	< 1.5	84	< 1	27	39
Area G gravel	5037233	14704	0 - 5	< 0.8	< 5	34	< 0.8	34	12	61	7	< 1.5	100	< 1	32	31
Area H grass	5037234	14705	0 - 5	< 0.8	< 5	40	< 0.8	30	9	110	16	< 1.5	<u>260</u>	< 1	29	30
		14706	0 - 5	< 0.8	5	40	< 0.8	30	8	110	17	< 1.5	<u>250</u>	< 1	30	29
Table F (results in bold)				1.0	14	190	1.0	67	19	56	55	2.5	43	1.4	91	150
Table A (results in bold and underlined)				13	20	750	12	750	40	225	200	5.0	150	10	200	600
< - less than the Method Detection Limit.																
Al, Ca, Fe, Mg, Mn, and Sr results can be found in Table 4.1.																

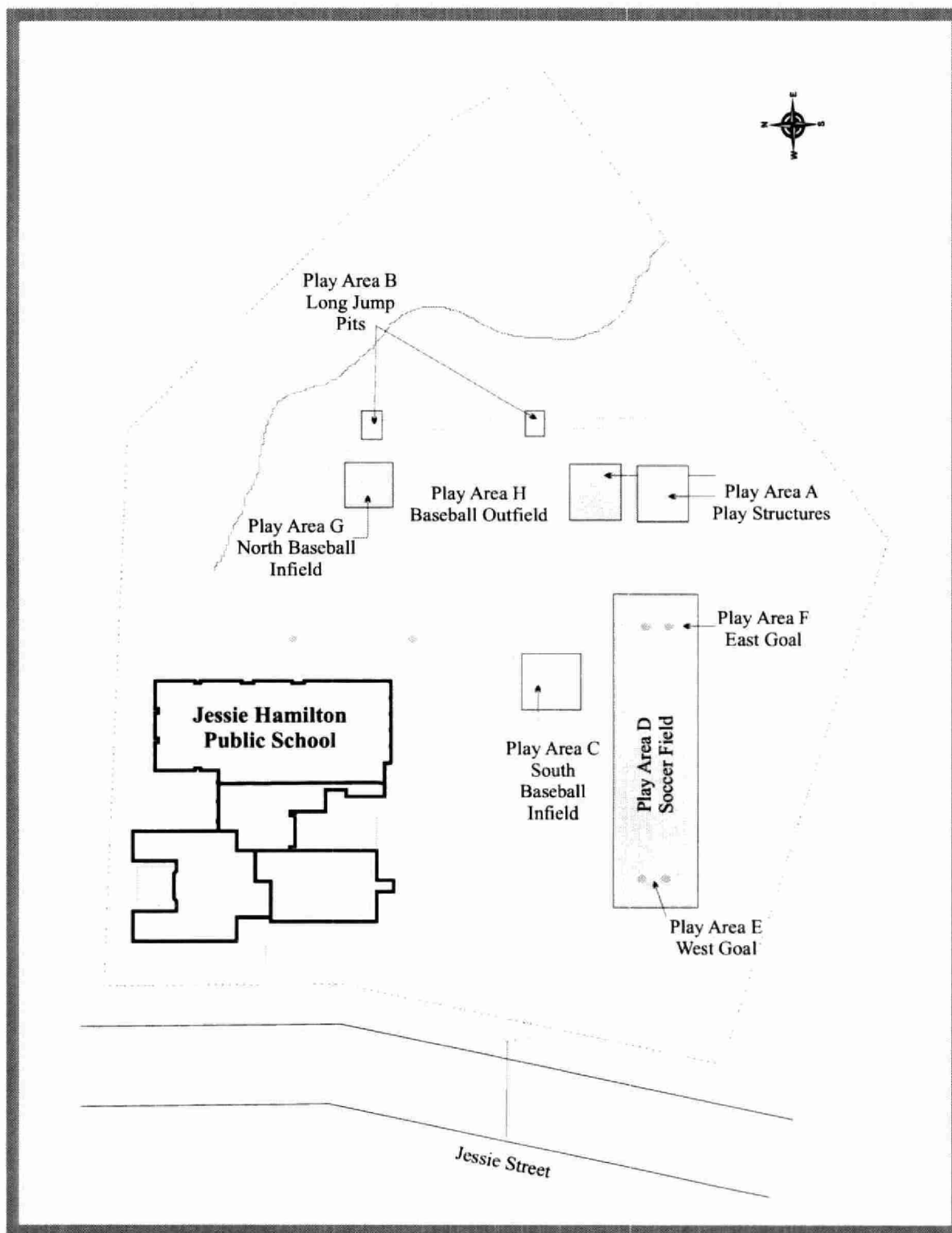


Figure B2.1.16: Jessie Hamilton Public School Sampling Locations - 2001

2.1.17 Lansdowne Public School - Rainbow District School Board 185 Lansdowne Street North, Sudbury

Lansdowne Public School was sampled on July 16, 2001. Figure B2.1.17 details the sampling locations at this property. Samples were taken from three areas on the school property. Areas A and B correspond to the baseball diamond outfield and infield, respectively. Area C corresponds to the gravel playground at the northwest corner of the school property. Due to the compacted nature of all areas, it was only possible to sample the surface soil layer (0 - 5 cm). All data were compared with the MOE Table F Ontario Soil Background Criteria and Table A Effects Based Soil Criteria (MOE 1997).

Nickel concentrations were elevated above the MOE Table F Ontario Soil Background Criteria in the surface layer of all sampling locations on this property and concentrations were also elevated above the MOE Table A Effects Based Soil Criteria at the baseball diamond infield and outfield. Copper concentrations were also elevated above the MOE Table F Ontario Soil Background Criteria at the baseball diamond infield and outfield. All other metals listed, as well as aluminum (Al), calcium (Ca), iron (Fe), magnesium (Mg), manganese (Mn), and strontium (Sr) which are not listed, were below the MOE Table F Ontario Soil Background Criteria.

These soil results are lower than those reported historically. Previous MOE sampling of undisturbed soils approximately 0.5 km north of Lansdowne Public School, Station 84 of the MOE Sudbury 2000 Report for the City of Greater Sudbury (MOE 2001), indicated nickel and copper concentrations as high as 490 and 520 ppm, respectively. Historic MOE sampling in the Sudbury area was of undeveloped surface soils which may not be representative of the materials sampled on this property.

Table B2.1.17: Concentration of 13 Elements in Soil in µg/g Collected at Lansdowne Public School, 185 Lansdowne Street North, Sudbury - 2001																
Map ID	Station	Sample Number	Soil Depth	Sb	As	Ba	Cd	Cr	Co	Cu	Pb	Mo	Ni	Se	V	Zn
Area A grass	5037115	14261	0 - 5	< 0.8	6	52	< 0.8	34	9	150	23	< 1.5	<u>170</u>	1	30	39
		14262	0 - 5	< 0.8	6	53	< 0.8	35	9	130	18	< 1.5	<u>160</u>	< 1	29	38
Area B gravel	5037116	14263	0 - 5	< 0.8	5	47	< 0.8	31	10	150	18	< 1.5	<u>170</u>	< 1	29	53
		14264	0 - 5	< 0.8	5	47	< 0.8	33	10	120	18	< 1.5	140	< 1	30	33
Area C gravel	5037117	14265	0 - 5	< 0.8	< 5	24	< 0.8	33	7	52	4	< 1.5	67	< 1	35	28
		14266	0 - 5	< 0.8	< 5	19	< 0.8	30	7	45	4	< 1.5	57	< 1	34	25
Table F (results in bold)				1.0	14	190	1.0	67	19	56	55	2.5	43	1.4	91	150
Table A (results in bold and underlined)				13	20	750	12	750	40	225	200	5.0	150	10	200	600
< - less than the Method Detection Limit.				Al, Ca, Fe, Mg, Mn, and Sr results can be found in Table 4.1.												

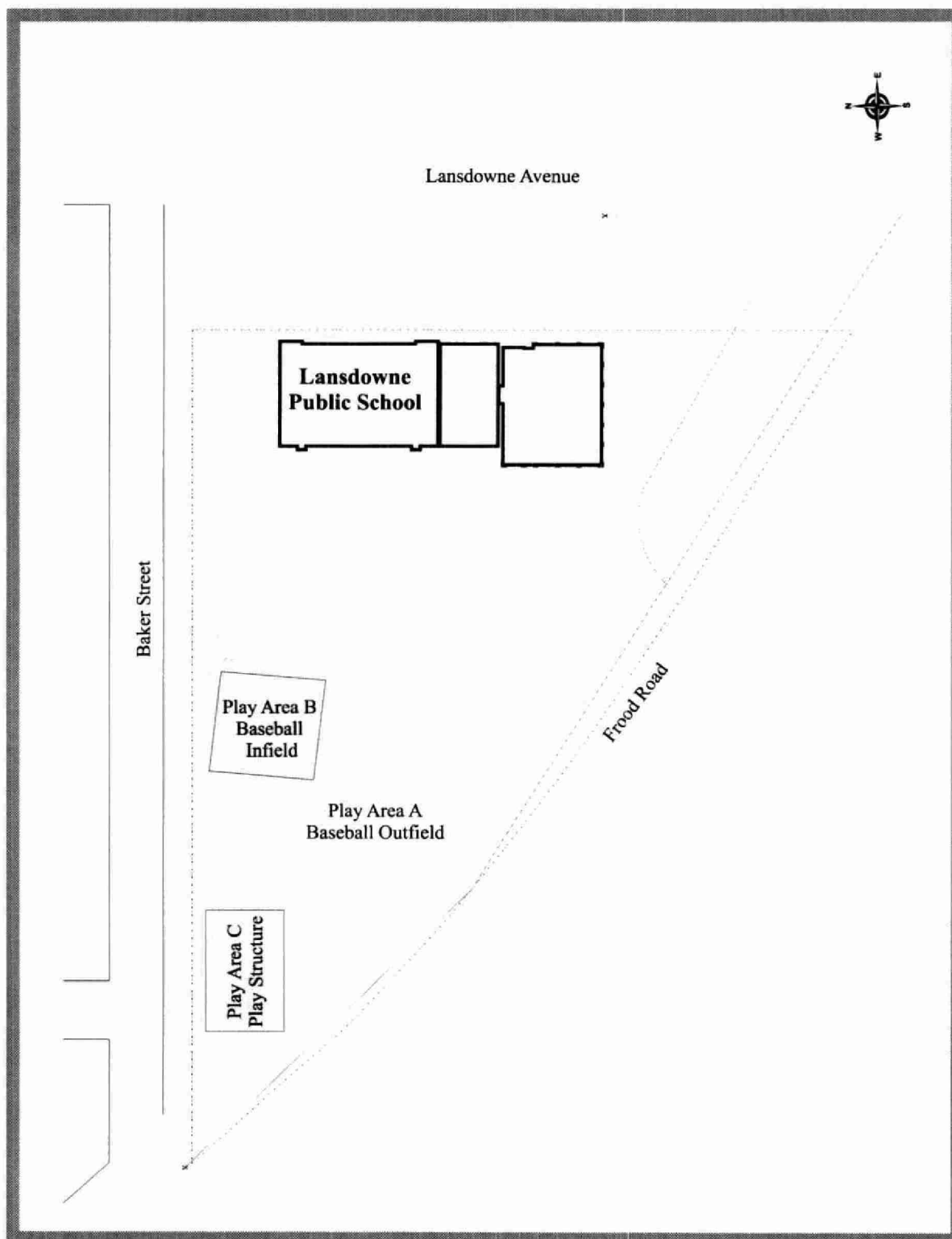


Figure B2.1.17: Lansdowne Public School Sampling Locations - 2001.

2.1.18 Larchwood Public School - Rainbow District School Board Box 220 Main Street, Dowling

Larchwood Public School was sampled on July 19, 2001. Figure B2.1.18 details the sampling locations at this property. Samples were taken from three areas on the school property. Areas A and C correspond to the grassed area of the soccer field and the worn area around the west goal post, respectively. Due to the compacted nature of the soccer field, it was only possible to sample the surface soil (0-5 cm). Area B corresponds to the sand samples that were taken below the play structure. Due to the constant mixing of sand and the homogeneous nature of the sanded areas, sand samples were collected with hand trowels to represent the 0-15 cm depth. All data were compared with the MOE Table F Ontario Soil Background Criteria and Table A Effects Based Soil Criteria (MOE 1997).

Metal concentrations were not elevated in the sand beneath the play structure. The sand present is not likely native to the school property and is believed to have been introduced when the play structure was constructed. Thus the sand was not expected to have elevated metal concentrations. Nickel concentrations were slightly elevated above the MOE Table F Ontario Soil Background Criteria in the surface soil of the soccer field. All other metals listed, as well as aluminum (Al), calcium (Ca), iron (Fe), magnesium (Mg), manganese (Mn), and strontium (Sr) which are not listed, were below the MOE Table F Ontario Soil Background Criteria. There were no exceedences of the MOE Table A Effects Based Soil Criteria.

These soil results are similar to those reported historically. Previous MOE sampling of undisturbed soils approximately 3.5 km southwest of Larchwood Public School, Station 391 of the MOE Sudbury 2000 Report for the City of Greater Sudbury (MOE 2001), indicated nickel and copper concentrations of 25 and 14 ppm, respectively. Historic MOE sampling in the Sudbury area was of undeveloped surface soils which may not be representative of the materials sampled on this property.

Table B2.1.18: Concentration of 13 Elements in Soil in µg/g Collected at Larchwood Public School, Box 220 Main Street, Dowling - 2001																	
Map ID	Station	Sample Number	Soil Depth	Sb	As	Ba	Cd	Cr	Co	Cu	Pb	Mo	Ni	Se	V	Zn	
Area A grass	5037402	14557	0 - 5	< 0.8	< 5	50	< 0.8	46	6	23	30	< 1.5	44	< 1	33	34	
		14558	0 - 5	< 0.8	< 5	54	< 0.8	53	7	25	51	< 1.5	49	< 1	35	38	
Area C sand	5037403	14559	0 - 15	< 0.8	< 5	20	< 0.8	26	6	19	4	< 1.5	19	< 1	34	23	
Area B soil	5037404	14560	0 - 5	< 0.8	< 5	44	< 0.8	37	5	24	14	< 1.5	38	< 1	30	37	
Table F (results in bold)				1.0	14	190	1.0	67	19	56	55	2.5	43	1.4	91	150	
Table A (results in bold and underlined)				13	20	750	12	750	40	225	200	5.0	150	10	200	600	
< - less than the Method Detection Limit.																	
Al, Ca, Fe, Mg, Mn, and Sr results can be found in Table 4.1.																	

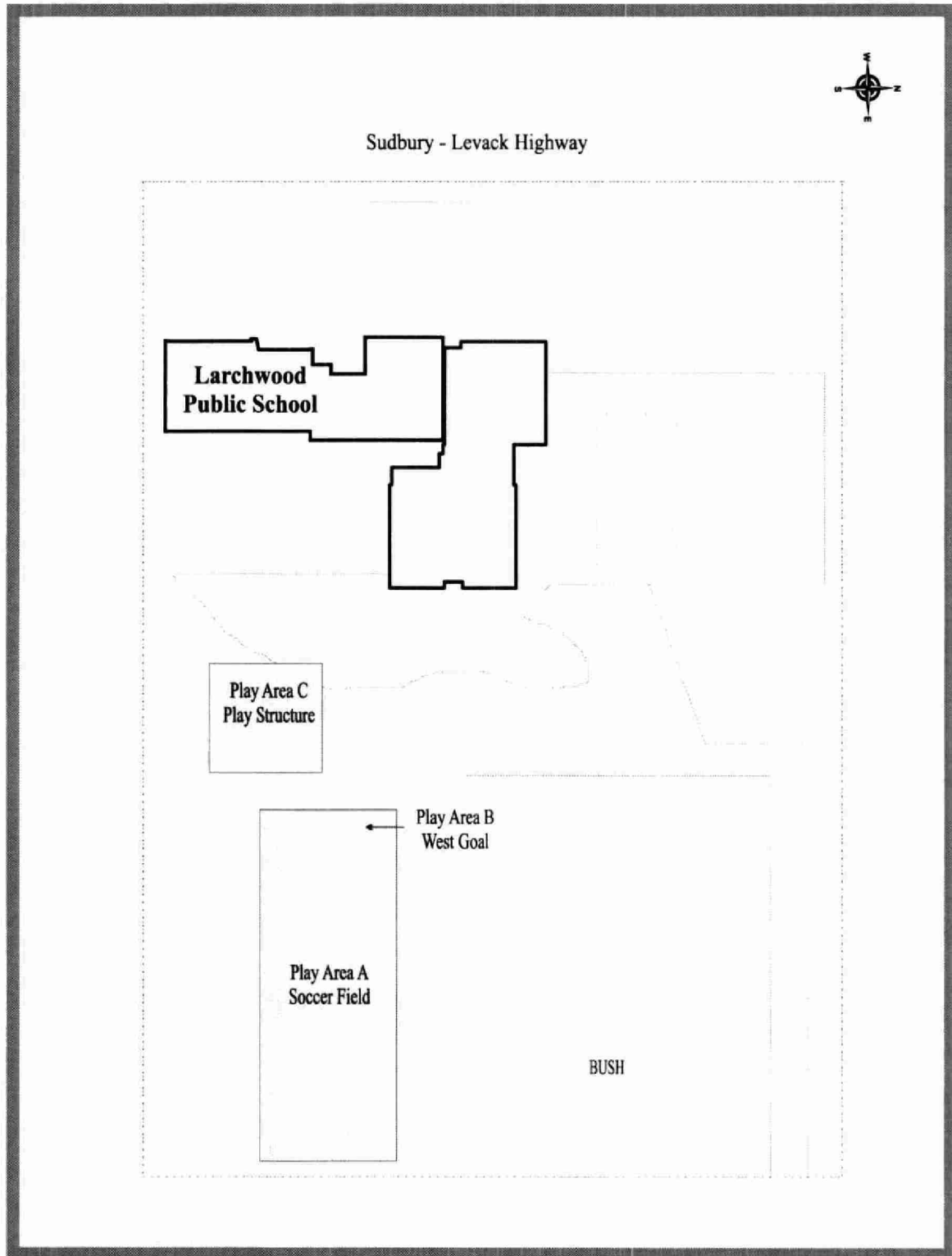


Figure B2.1.18: Larchwood Public School Sampling Locations - 2001.

2.1.19 Lasalle Secondary School - Rainbow District School Board 1545 Kennedy Street, Sudbury

Lasalle Secondary School was sampled on July 17, 2001. Figure B2.1.19 details the sampling locations on this property. Samples were taken from four areas on the school property. Areas A and B correspond to the grassed areas of the north and south soccer fields, respectively. Areas C and D correspond to the worn areas around the west and east goal posts of the soccer fields, respectively. Due to the compacted nature of these soccer fields, it was only possible to collect one replicate of depth samples from the south soccer field and only surface sample (0-5 cm) from the other sampling locations. All data were compared with the MOE Table F Ontario Soil Background Criteria and Table A Effects Based Soil Criteria (MOE 1997).

Nickel concentrations were elevated above the MOE Table F Ontario Soil Background Criteria for all soil samples collected from the north and south soccer fields. There was only one sample that had a nickel concentration slightly elevated above the MOE Table A Effects Based Soil Criteria at 160 ppm. Concentrations of copper (Cu), lead (Pb), and selenium (Se) were also elevated above the MOE Table F Ontario Soil Background Criteria at some sampling depths of the soccer fields. All other metals listed, as well as aluminum (Al), calcium (Ca), iron (Fe), magnesium (Mg), manganese (Mn), and strontium (Sr) which are not listed, were below the MOE Table F Ontario Soil Background Criteria.

These soil results are within the lower end of the concentration ranges reported historically. Previous MOE sampling of undisturbed soils approximately 0.2 km northeast and 1.5 km southwest of Lasalle Secondary School, Stations 43, and 86, respectively, of the MOE Sudbury 2000 Report for the City of Greater Sudbury (MOE 2001), indicated nickel and copper surface soil concentrations ranges of 28 to 375, and 33 to 305 ppm, respectively. Historic MOE sampling in the Sudbury area was of undeveloped surface soils which may not be representative of the materials sampled on this property.

Table B2.1.19: Concentration of 13 Elements in Soil in µg/g Collected at Lasalle Secondary, 1545 Kennedy Street, Sudbury - 2001																	
Map ID	Station	Sample Number	Soil Depth	Sb	As	Ba	Cd	Cr	Co	Cu	Pb	Mo	Ni	Se	V	Zn	
Area A grass	5037215	14333	0 - 5	< 0.8	6	42	< 0.8	30	7	83	26	< 1.5	90	< 1	29	26	
		14334	0 - 5	< 0.8	< 5	46	1	37	10	160	53	< 1.5	160	2	27	38	
Area B grass	5037216	14335	0 - 5	< 0.8	< 5	36	< 0.8	35	6	55	28	< 1.5	73	< 1	31	25	
		14336	0 - 5	< 0.8	< 5	36	< 0.8	45	7	66	77	< 1.5	84	< 1	30	26	
		14339	5 - 10	< 0.8	5	32	< 0.8	29	6	40	9	< 1.5	55	< 1	29	22	
		14340	10 - 20	< 0.8	5	30	< 0.8	21	5	41	6	< 1.5	56	< 1	24	18	
Area C soil	5037217	14337	0 - 5	< 0.8	< 5	31	< 0.8	22	3	20	9	< 1.5	29	< 1	23	17	
Area D soil	5037218	14338	0 - 5	< 0.8	< 5	32	< 0.8	25	4	26	12	< 1.5	35	< 1	25	19	
Table F (results in bold)				1.0	14	190	1.0	67	19	56	55	2.5	43	1.4	91	150	
Table A (results in bold and underlined)				13	20	750	12	750	40	225	200	5.0	150	10	200	600	
< - less than the Method Detection Limit. Al, Ca, Fe, Mg, Mn, and Sr results can be found in Table 4.1.																	

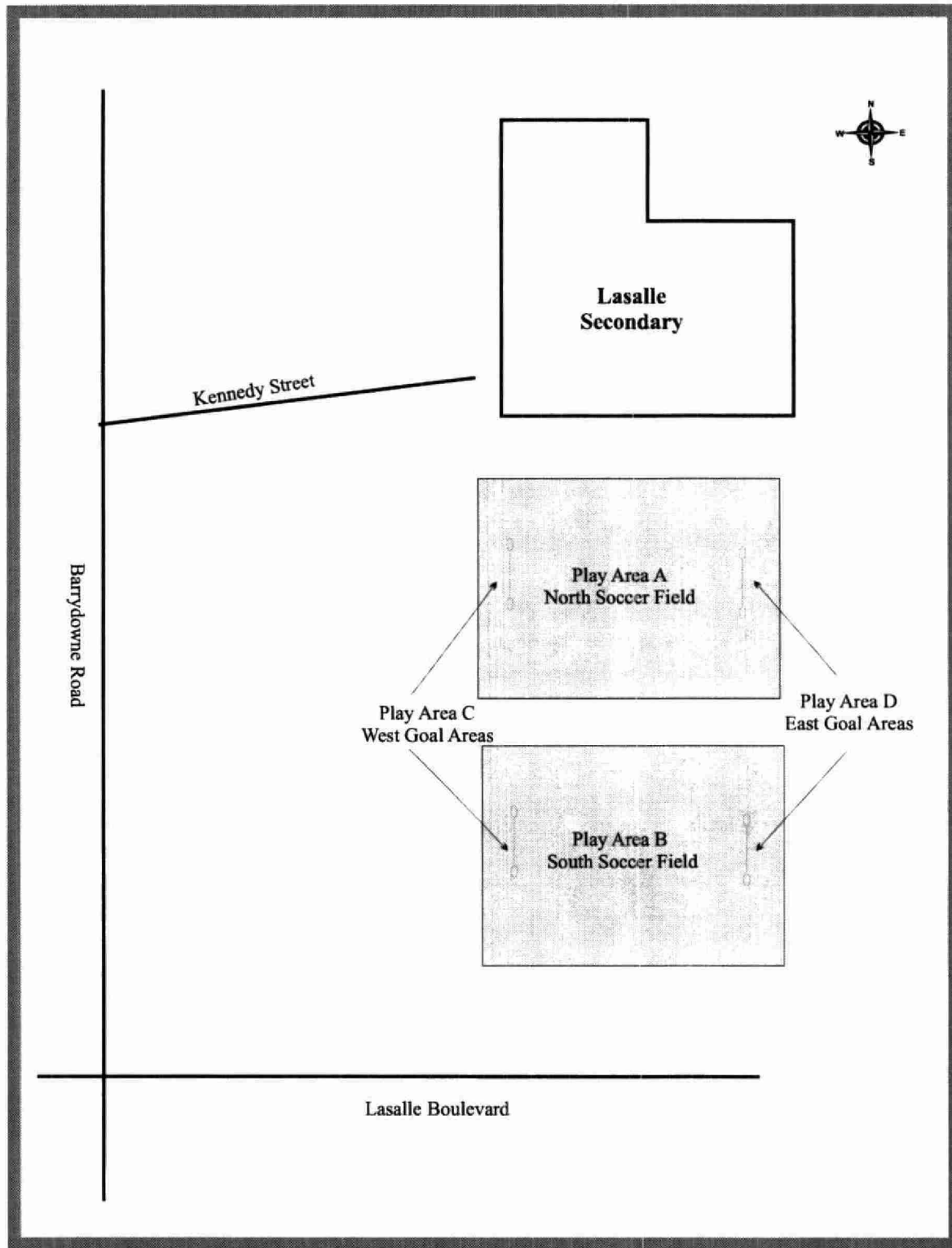


Figure B2.1.19: Lasalle Secondary School Sampling Locations - 2001.

2.1.20 Levack Public School (formerly) - Rainbow District School Board 38 School Street, Levack

Levack Public School was sampled on July 19, 2001 and has since closed at this location. Figure B2.1.20 details the sampling locations at this property. Samples were taken from two areas on the school property. Area A corresponds to the gravel baseball diamond in the northwest corner of the school property. Area B corresponds to the sand beneath the play structure located on the south side of the school building. Due to the constant mixing of sand and the homogeneous nature of the sanded area, sand samples were collected with hand trowels to represent the 0-15 cm depth. Hand trowels were also used to collect the gravel samples to represent the 0-5 cm depth. All data were compared with MOE Table F Ontario Soil Background Criteria and Table A Effects Based Soil Criteria (MOE 1997).

Metal concentrations were not elevated in the sand beneath the play structure. The sand present is not likely native to the school property and is believed to have been introduced when the play structure was constructed. Thus the sand was not expected to have elevated metal concentrations. Nickel (Ni) and copper (Cu) concentrations were elevated above the MOE Table F Ontario Soil Background Criteria and Table A Effects Based Soil Criteria in the fine gravel particles of the baseball diamond. All other metals listed, as well as aluminum (Al), calcium (Ca), iron (Fe), magnesium (Mg), manganese (Mn), and strontium (Sr) which are not listed, were below the MOE Table F Ontario Soil Background Criteria.

The results from the gravel baseball diamond are much higher than soil results reported historically. Previous MOE sampling of undisturbed soils approximately 5 and 4 km southeast of Levack Public School (formerly), Station 390 and 388, respectively, of the MOE Sudbury 2000 Report for the City of Greater Sudbury (MOE 2001), indicated nickel and copper surface soil concentrations of 80 and 56 ppm, respectively. Historic MOE sampling in the Sudbury area was of undeveloped surface soils which may not be representative of all materials sampled on this property.

Table B2.1.20: Concentration of 13 Elements in Soil in µg/g Collected at Levack Public School (formerly), 38 School Street, Levack - 2001																
Map ID	Station	Sample Number	Soil Depth	Sb	As	Ba	Cd	Cr	Co	Cu	Pb	Mo	Ni	Se	V	Zn
Area A gravel	5037406	14568	0 - 5	< 0.8	< 5	28	< 0.8	27	7	43	23	< 1.5	50	< 1	27	30
		14569	0 - 5	1	5	35	< 0.8	23	17	<u>670</u>	32	< 1.5	<u>350</u>	1	26	46
Area B sand	5037407	14570	0 - 15	< 0.8	< 5	18	< 0.8	23	6	15	2	< 1.5	16	< 1	29	18
Table F (results in bold)				1.0	14	190	1.0	67	19	56	55	2.5	43	1.4	91	150
Table A (results in bold and underlined)				13	20	750	12	750	40	225	200	5.0	150	10	200	600
< - less than the Method Detection Limit. Al, Ca, Fe, Mg, Mn, and Sr results can be found in Table 4.1.																

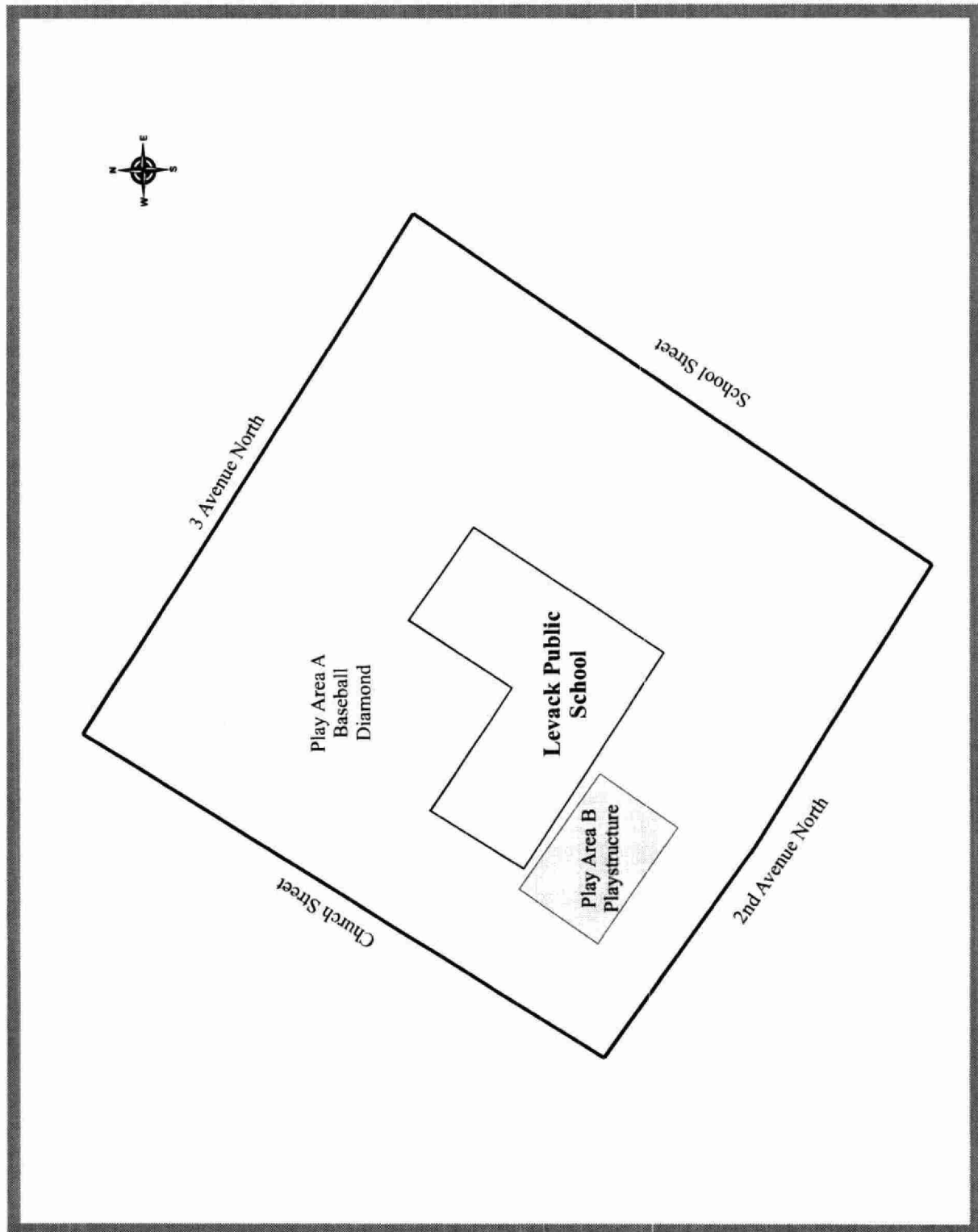


Figure B2.1.20: Levack Public School (formerly) Sampling Locations - 2001.

2.1.21 Levack District High School (now Levack Public School) - Rainbow District School Board
100 High Street, Levack

Levack District High School was sampled on July 19, 2001 and has since been replaced by Levack Public School at this location. Figure B2.1.21 details the sampling locations at this property. Samples were taken from one area on the school property. Area A corresponds to the soccer field north of the school property. Due to the compacted nature of this area, it was only possible to sample the 10 - 20 cm depth for one replicate. All data were compared with the MOE Table F Ontario Soil Background Criteria and Table A Effects Based Soil Criteria (MOE 1997).

Nickel concentrations were elevated above the MOE Table F Ontario Soil Background Criteria in all depth samples collected from the soccer field. The highest nickel concentration, 73 ppm, was found in the surface soil layer (0-5 cm). All other metals listed, as well as aluminum (Al), calcium (Ca), iron (Fe), magnesium (Mg), manganese (Mn), and strontium (Sr) which are not listed, were below the MOE Table F Ontario Soil Background Criteria. There were no exceedences of the MOE Table A Effects Based Soil Criteria at this property.

These soil results are similar to those reported historically. Previous MOE sampling of undisturbed soils approximately 5 and 4 km southeast of Levack District High School (now Levack Public School), Stations 390 and 388, respectively, of the MOE Sudbury 2000 Report for the City of Greater Sudbury (MOE 2001), indicated nickel and copper concentrations as high as 80 and 56 ppm, respectively. Historic MOE sampling in the Sudbury area was of undeveloped surface soils which may not be representative of the materials sampled on this property.

Table B2.1.21: Concentration of 13 Elements in Soil in µg/g Collected at Levack District High School (now Levack Public School), 100 High Street, Levack - 2001																
Map ID	Station	Sample Number	Soil Depth	Sb	As	Ba	Cd	Cr	Co	Cu	Pb	Mo	Ni	Se	V	Zn
Area A grass	5037408	14563	0 - 5	< 0.8	< 5	54	< 0.8	33	8	48	21	< 1.5	72	1	28	62
		14564	0 - 5	< 0.8	< 5	53	< 0.8	33	9	44	16	< 1.5	73	< 1	29	40
		14565	5 - 10	< 0.8	< 5	46	< 0.8	34	7	29	7	< 1.5	40	1	34	24
		14566	5 - 10	< 0.8	< 5	46	< 0.8	34	7	36	8	< 1.5	53	< 1	33	27
		14567	10 - 20	< 0.8	< 5	38	< 0.8	33	6	28	7	< 1.5	45	< 1	31	26
Table F (results in bold)				1.0	14	190	1.0	67	19	56	55	2.5	43	1.4	91	150
Table A (results in bold and underlined)				13	20	750	12	750	40	225	200	5.0	150	10	200	600
< - less than the Method Detection Limit.																
Al, Ca, Fe, Mg, Mn, and Sr results can be found in Table 4.1.																

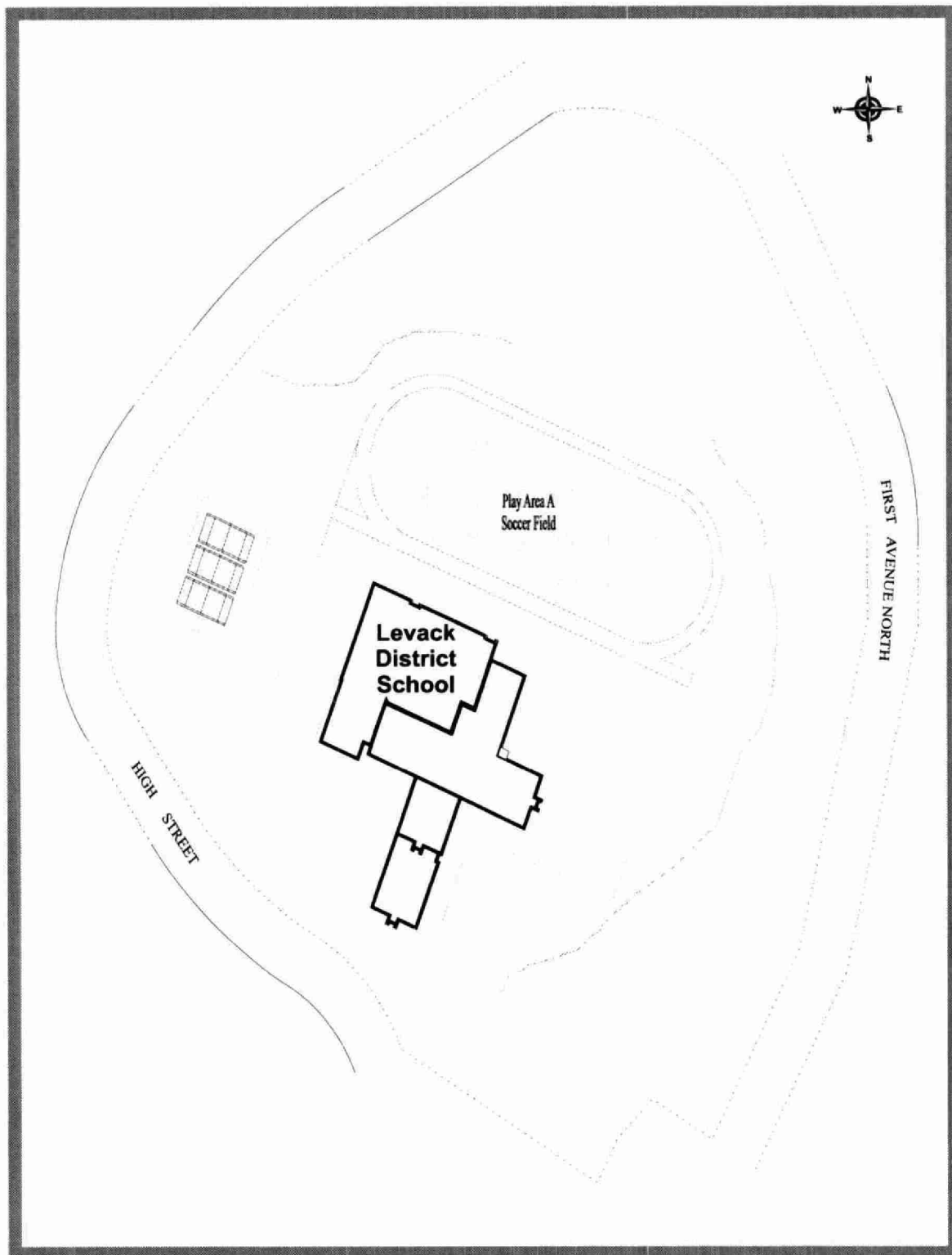


Figure B2.1.21: Levack District High School (now Levack Public School)
Sampling Locations - 2001.

2.1.22 Lively District High School - Rainbow District School Board Box 430 5th Avenue, Lively

Lively District High School was sampled on July 21, 2001. Figure B2.1.22 details the sampling locations at this property. Samples were taken from one area on the school property. Area A corresponds to the soccer field east of the school building. Due to the compacted nature of this area, it was only possible to sample the 5-10 cm and 10-20 cm depths for one replicate. All data were compared with the MOE Table F Ontario Soil Background Criteria and Table A Effects Based Soil Criteria (MOE 1997).

Nickel (Ni), copper (Cu), and lead (Pb) concentrations were elevated above the MOE Table F Ontario Soil Background Criteria in the surface soil samples collected from the soccer field. The highest nickel, copper and lead concentrations found in the surface soil were 140, 93, and 120 ppm, respectively. All other metals listed, as well as aluminum (Al), calcium (Ca), iron (Fe), magnesium (Mg), manganese (Mn), and strontium (Sr) which are not listed, were below the MOE Table F Ontario Soil Background Criteria. There were no exceedences of the MOE Table A Effects Based Soil Criteria at this property.

These soil nickel and copper results are lower than those reported historically. Previous MOE sampling of undisturbed soils approximately 1 km southeast of Lively District High School, Station 376 of the MOE Sudbury 2000 Report for the City of Greater Sudbury (MOE 2001), indicated nickel and copper concentrations as high as 310 and 350 ppm, respectively. The lead concentrations at this site are higher than the historic sampling indicated. The highest lead concentration found at Station 376 was 46 ppm. Historic MOE sampling in the Sudbury area was of undeveloped surface soils which may not be representative of all materials sampled on this property.

Table B2.1.22: Concentration of 13 Elements in Soil in µg/g Collected at Lively District High School, Box 430 5th Avenue, Lively - 2001																
Map ID	Station	Sample Number	Soil Depth	Sb	As	Ba	Cd	Cr	Co	Cu	Pb	Mo	Ni	Se	V	Zn
Area A grass	5037247	14734	0 - 5	< 0.8	6	42	< 0.8	60	6	60	120	< 1.5	85	< 1	31	31
		14735	0 - 5	< 0.8	< 5	47	< 0.8	47	8	93	85	< 1.5	140	1	29	34
		14736	5 - 10	< 0.8	7	28	< 0.8	24	5	37	11	< 1.5	54	< 1	26	23
		14737	10 - 20	< 0.8	5	31	< 0.8	22	4	30	6	< 1.5	42	< 1	25	23
Table F (results in bold)				1.0	14	190	1.0	67	19	56	55	2.5	43	1.4	91	150
Table A (results in bold and underlined)				13	20	750	12	750	40	225	200	5.0	150	10	200	600
< - less than the Method Detection Limit.																

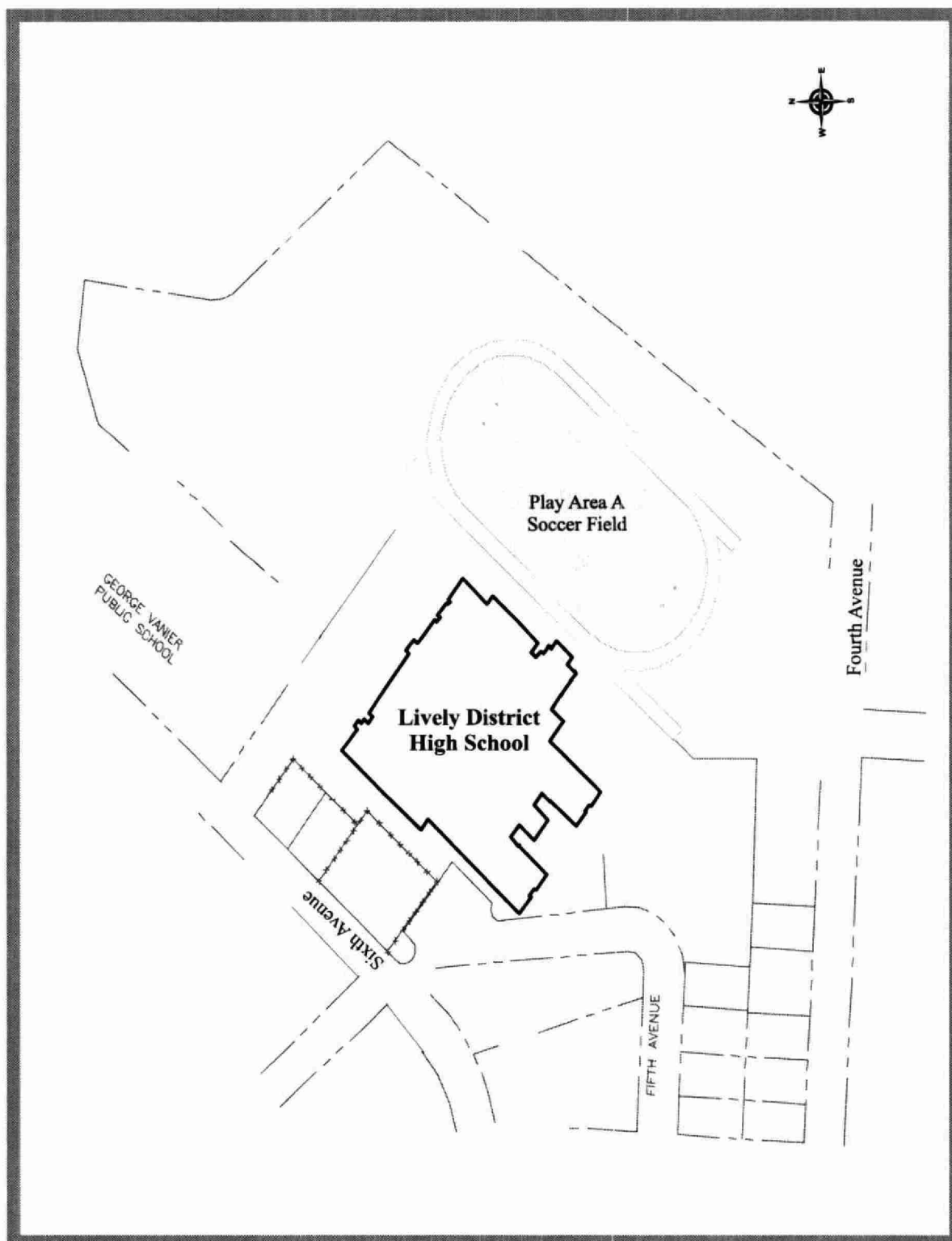


Figure B2.1.22: Lively District High School Sampling Locations - 2001.

2.1.23 Lockerby Composite School - Rainbow District School Board 1391 Ramsey View Court, Sudbury

Lockerby Composite School was sampled on July 15, 2001. Figure B2.1.23 details the sampling locations at this property. Samples were taken from three areas on the school property. Area A corresponds to the grassed area of the soccer field. Areas B and C correspond to the worn areas around the north and south goal posts of the soccer field, respectively. Due to the compacted nature of these areas, it was only possible to sample the surface soil (0-5 cm). All data were compared with the MOE Table F Ontario Soil Background Criteria and Table A Effects Based Soil Criteria (MOE 1997).

Nickel (Ni), copper (Cu), lead (Pb), and antimony (Sb) concentrations were elevated above the MOE Table F Ontario Soil Background Criteria in the surface soil samples collected from the soccer field. The highest nickel, copper and lead concentrations found in the surface soil were 120, 110, and 200 ppm, respectively. All other metals listed, as well as aluminum (Al), calcium (Ca), iron (Fe), magnesium (Mg), manganese (Mn), and strontium (Sr) which are not listed, were below the MOE Table F Ontario Soil Background Criteria. There were no exceedences of the MOE Table A Effects Based Soil Criteria at this property.

These soil nickel and copper results are lower than those reported historically. Previous MOE sampling of undisturbed soils approximately 1 km south of Lively District High School, Station 364 of the MOE Sudbury 2000 Report for the City of Greater Sudbury (MOE 2001), indicated nickel and copper concentrations as high as 210 and 280 ppm, respectively. The lead concentrations at this site were higher than the historic sampling indicated. The highest lead concentration found at Station 364 was 22 ppm. Historic MOE sampling in the Sudbury area was of undeveloped surface soils which may not be representative of the materials sampled on this property.

Table B2.1.23: Concentration of 13 Elements in Soil in µg/g Collected at Lockerby Composite School, 1391 Ramsey View Court, Sudbury - 2001																
Map ID	Station	Sample Number	Soil Depth	Sb	As	Ba	Cd	Cr	Co	Cu	Pb	Mo	Ni	Se	V	Zn
Area A grass	5037055	14111	0 - 5	1.3	< 5	48	< 0.8	36	7	75	75	< 1.5	87	< 1	28	25
		14112	0 - 5	0.9	< 5	39	< 0.8	67	8	110	200	< 1.5	120	< 1	28	30
Area B soil	5037056	14113	0 - 5	3.2	< 5	35	< 0.8	39	7	62	110	< 1.5	85	< 1	31	26
Area C soil	5037057	14114	0 - 5	4.4	< 5	32	< 0.8	33	6	50	150	< 1.5	70	< 1	30	25
Table F (results in bold)				1.0	14	190	1.0	67	19	56	55	2.5	43	1.4	91	150
Table A (results in bold and underlined)				13	20	750	12	750	40	225	200	5.0	150	10	200	600
< - less than the Method Detection Limit.				Al, Ca, Fe, Mg, Mn, and Sr results can be found in Table 4.1.												

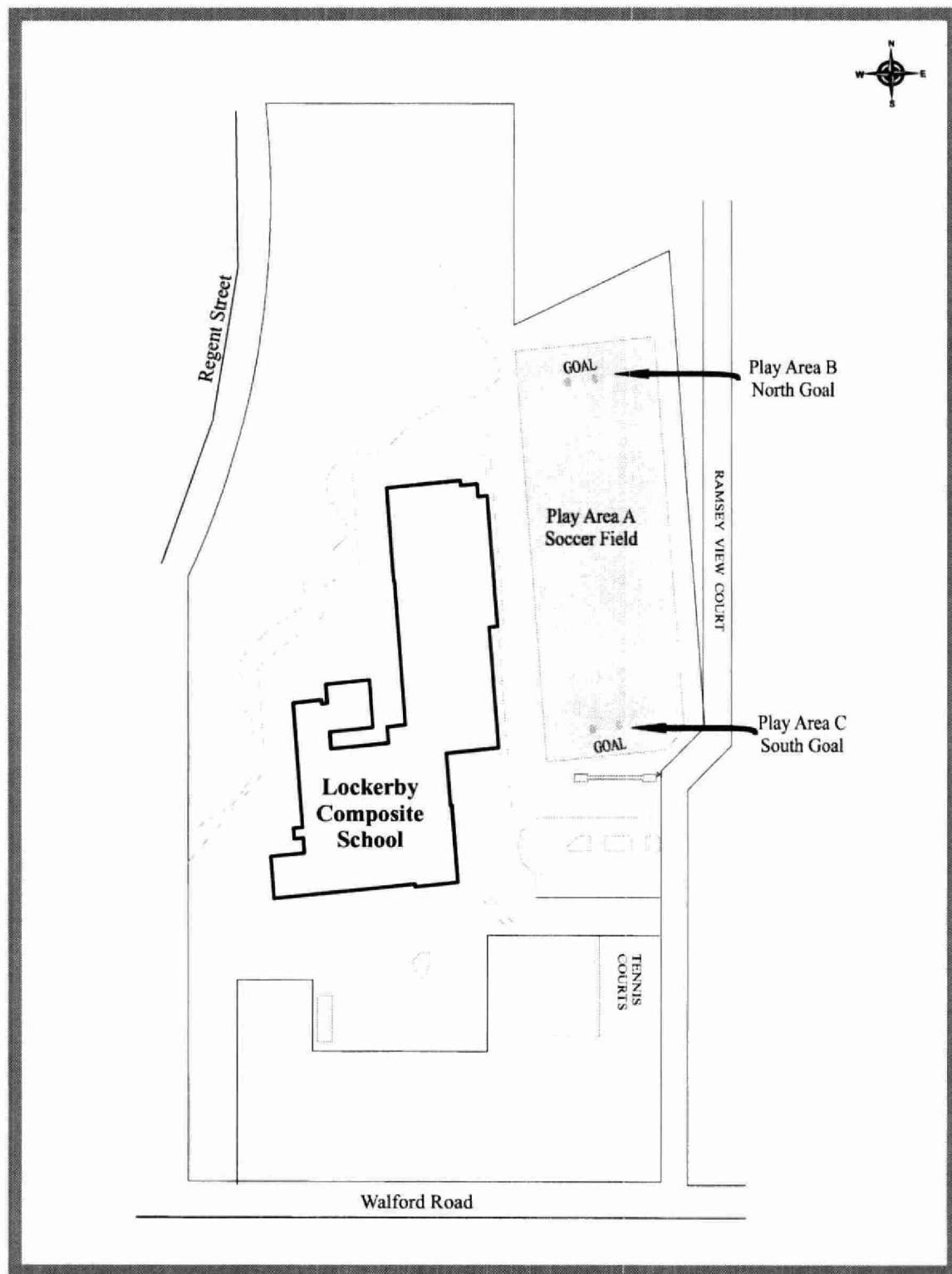


Figure B2.1.23: Lockerby Composite School Sampling Locations - 2001

2.1.24 Lo-Ellen Park Secondary School - Rainbow District School Board 275 Loach's Road, Sudbury

Lo-Ellen Park Secondary School was sampled on July 4, 2001. Figure B2.1.24 details the sampling locations at this property. Samples were taken from three areas on the school property. Area A corresponds to the grassed area of the soccer field. Areas B and C correspond to the worn areas around the east and west goal posts of the soccer field, respectively. Due to the compacted nature of the areas around the goal posts, it was only possible to sample the surface soil (0-5 cm). All data were compared with the MOE Table F Ontario Soil Background Criteria and Table A Effects Based Soil Criteria (MOE 1997).

Nickel (Ni), copper (Cu), and lead (Pb) concentrations were elevated above the MOE Table F Ontario Soil Background Criteria in the surface soil samples collected from the soccer field. The highest nickel, copper and lead concentrations found in the surface soil were 160, 120, and 140 ppm, respectively. All other metals listed, as well as aluminum (Al), calcium (Ca), iron (Fe), magnesium (Mg), manganese (Mn), and strontium (Sr) which are not listed, were below the MOE Table F Ontario Soil Background Criteria. There were no exceedences of the MOE Table A Effects Based Soil Criteria at this property.

These soil nickel and copper results are similar to those reported historically. Previous MOE sampling of undisturbed soils approximately 300 m northeast of Lively District High School, Station 365 of the MOE Sudbury 2000 Report for the City of Greater Sudbury (MOE 2001), indicated nickel and copper concentrations of 190 ppm each. The lead concentrations at this site are higher than the historic sampling indicated. The highest lead concentration found at Station 365 was 21 ppm. Historic MOE sampling in the Sudbury area was of undeveloped surface soils which may not be representative of the materials sampled on this property.

Table B2.1.24: Concentration of 13 Elements in Soil in µg/g Collected at Lo-Ellen Park Secondary, 275 Loach's Road, Sudbury - 2001																
Map ID	Station	Sample Number	Soil Depth	Sb	As	Ba	Cd	Cr	Co	Cu	Pb	Mo	Ni	Se	V	Zn
Area A grass	5037029	14078	0 - 5	< 0.8	< 5	41	< 0.8	54	10	120	140	< 1.5	160	< 1	27	25
		14079	0 - 5	< 0.8	< 5	37	< 0.8	51	10	120	120	< 1.5	140	< 1	26	24
		14080	5 - 10	< 0.8	8	36	< 0.8	27	8	91	11	< 1.5	130	< 1	29	21
		14081	5 - 10	< 0.8	< 5	34	< 0.8	27	8	89	12	< 1.5	110	< 1	28	20
		14082	10 - 20	< 0.8	< 5	30	< 0.8	23	6	53	7	< 1.5	78	< 1	26	15
		14083	10 - 20	< 0.8	< 5	21	< 0.8	19	5	29	4	< 1.5	40	< 1	22	12
Area B soil	5037030	14084	0 - 5	< 0.8	< 5	37	< 0.8	27	6	45	14	< 1.5	53	< 1	28	21
Area C soil	5037031	14085	0 - 5	< 0.8	< 5	48	< 0.8	34	9	110	29	< 1.5	130	< 1	31	27
Table F (results in bold)				1.0	14	190	1.0	67	19	56	55	2.5	43	1.4	91	150
Table A (results in bold and underlined)				13	20	750	12	750	40	225	200	5.0	150	10	200	600
< - less than the Method Detection Limit.																
Al, Ca, Fe, Mg, Mn, and Sr results can be found in Table 4.1.																

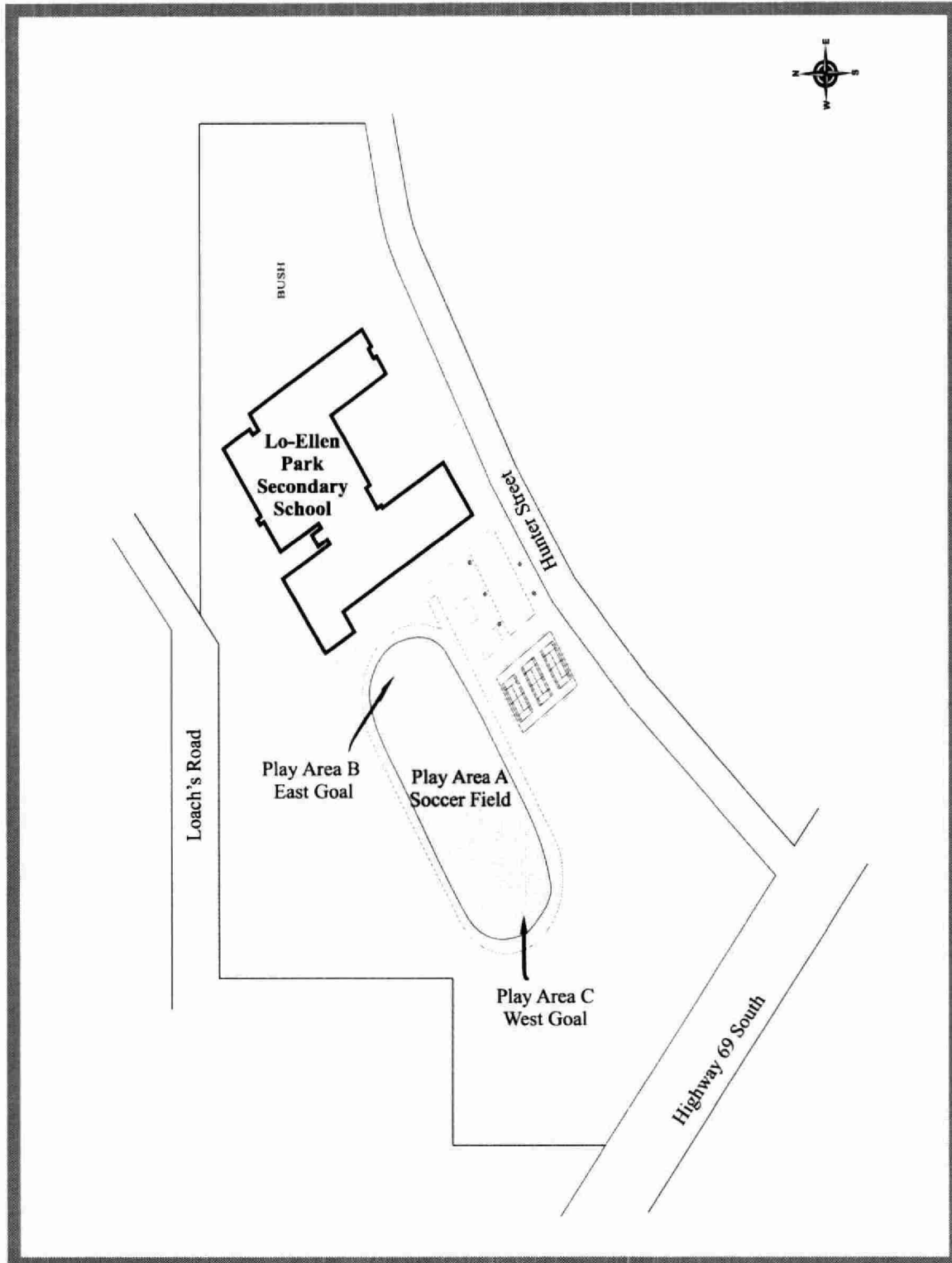


Figure B2.1.24: Lo-Ellen Park Secondary School Sampling Locations - 2001.

2.1.25 Long Lake Public School - Rainbow District School Board 4420 Long Lake Road, Sudbury

Long Lake Public School was sampled on July 5, 2001. Figure B2.1.25 details the sampling locations at this property. Samples were taken from two areas on the school property. Area A corresponds to the grassed play area on the east side of the school building. Area B corresponds to the sand samples that were taken below the play structures. Due to the constant mixing of sand and the homogeneous nature of the sanded areas, sand samples were collected with hand trowels to represent the 0-15 cm depth. All data were compared with the MOE Table F Ontario Soil Background Criteria and Table A Effects Based Soil Criteria (MOE 1997).

Metal concentrations were not elevated in the sand beneath the play structure. The sand present is not likely native to the school property and is believed to have been introduced when the sanded play areas were constructed. Thus the sand was not expected to have elevated metal concentrations. Nickel (Ni) and copper (Cu) concentrations were elevated above the MOE Table F Ontario Soil Background Criteria in all samples from the grassed play area. The highest nickel and copper concentrations, 110 and 92 ppm, respectively, were found in the surface soil layer (0-5 cm). All other metals listed, as well as aluminum (Al), calcium (Ca), iron (Fe), magnesium (Mg), manganese (Mn), and strontium (Sr) which are not listed, were below the MOE Table F Ontario Soil Background Criteria. There were no exceedences of the MOE Table A Effects Based Soil Criteria at this property.

These soil results are lower than those reported historically. Previous MOE sampling of undisturbed soils approximately 2.5 km north and 2 km west of Long Lake Public School, Stations 366 and 429, respectively, of the MOE Sudbury 2000 Report for the City of Greater Sudbury (MOE 2001), indicated nickel and copper surface soil concentrations as high as 480 and 440 ppm, respectively. Historic MOE sampling in the Sudbury area was of undeveloped surface soils which may not be representative of the materials sampled on this property.

Table B2.1.25: Concentration of 13 Elements in Soil in µg/g Collected at Long Lake Public School, 4420 Long Lake Road, Sudbury - 2001

Map ID	Station	Sample Number	Soil Depth	Sb	As	Ba	Cd	Cr	Co	Cu	Pb	Mo	Ni	Se	V	Zn
Area A grass	5037021	14197	0 - 5	< 0.8	6	33	< 0.8	23	7	92	15	< 1.5	110	< 1	23	26
		14198	0 - 5	< 0.8	6	28	< 0.8	21	6	82	10	< 1.5	84	< 1	22	22
		14201	5 - 10	< 0.8	7	37	< 0.8	24	5	60	8	< 1.5	74	< 1	26	24
		14202	5 - 10	< 0.8	9	34	< 0.8	22	5	82	10	< 1.5	78	< 1	20	23
		14203	10 - 20	< 0.8	< 5	38	< 0.8	27	5	18	5	< 1.5	44	< 1	25	22
		14204	10 - 20	< 0.8	6	39	< 0.8	26	5	28	6	< 1.5	59	< 1	28	23
Area B sand	5037022	14199	0 - 15	< 0.8	< 5	29	< 0.8	27	7	21	3	< 1.5	21	< 1	25	23
		14200	0 - 15	< 0.8	< 5	33	< 0.8	28	8	41	3	< 1.5	24	< 1	28	24
Table F (results in bold)				1.0	14	190	1.0	67	19	56	55	2.5	43	1.4	91	150
Table A (results in bold and underlined)				13	20	750	12	750	40	225	200	5.0	150	10	200	600
< - less than the Method Detection Limit.																
Al, Ca, Fe, Mg, Mn, and Sr results can be found in Table 4.1.																

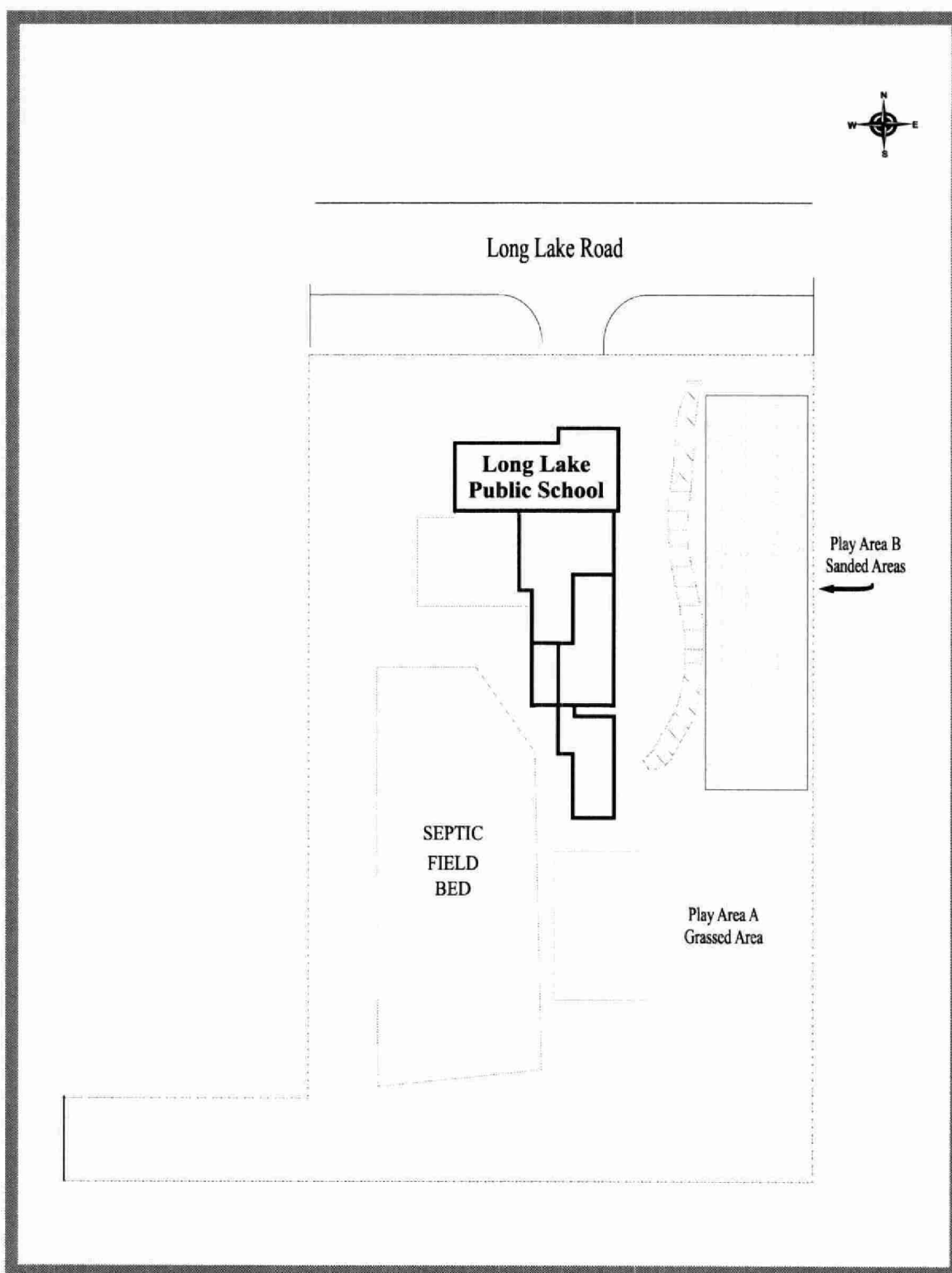


Figure B2.1.25: Long Lake Public School Sampling Locations - 2001.

2.1.26 MacLeod Public School - Rainbow District School Board 310 Anthony Street, Sudbury

MacLeod Public School was sampled on July 4, 2001. Figure B2.1.26 details the sampling locations at this property. Samples were taken from three areas on the school property. Area A corresponds to the sand samples that were taken below the play structure. Due to the constant mixing of sand and the homogeneous nature of the sanded areas, sand samples were collected with hand trowels to represent the 0-15 cm depth. Area B corresponds to the gravel samples that were taken over the entire baseball diamond. Hand trowels were also used to collect the gravel samples to represent the 0-5 cm depth. Area C corresponds to the grassed play area on the east side of the basketball court. Due to the compacted nature of the grassed areas, it was only possible to sample the surface soil (0-5 cm). All data were compared with the MOE Table F Ontario Soil Background Criteria and Table A Effects Based Soil Criteria (MOE 1997).

Metal concentrations were not elevated in the sand beneath the play structure. The sand present is not likely native to the school property and is believed to have been introduced when the sanded play areas were constructed. Thus the sand was not expected to have elevated metal concentrations. Nickel (Ni) and copper (Cu) concentrations were elevated above the MOE Table F Ontario Soil Background Criteria in all surface samples from the grassed and gravel play areas. The highest nickel and copper concentrations were found in the surface soil layer (0-5 cm) of the grassed area with concentrations of 160 and 150 ppm, respectively. All other metals listed, as well as aluminum (Al), calcium (Ca), iron (Fe), magnesium (Mg), manganese (Mn), and strontium (Sr) which are not listed, were below the MOE Table F Ontario Soil Background Criteria. There was one exceedences of the MOE Table A Effects Based Soil Criteria for nickel at this property.

These soil results are lower than those reported historically. Previous MOE sampling of undisturbed soils approximately 0.5 km south of MacLeod Public School, Station 364 of the MOE Sudbury 2000 Report for the City of Greater Sudbury (MOE 2001), indicated nickel and copper surface soil concentrations as high as 210 and 280 ppm, respectively. Historic MOE sampling in the Sudbury area was of undeveloped surface soils which may not be representative of the materials sampled on this property.

Table B2.1.26: Concentration of 13 Elements in Soil in µg/g Collected at MacLeod Public School, 310 Anthony Street, Sudbury - 2001																
Map ID	Station	Sample Number	Soil Depth	Sb	As	Ba	Cd	Cr	Co	Cu	Pb	Mo	Ni	Se	V	Zn
Area A sand	5037047	14104	0 - 15	< 0.8	< 5	31	< 0.8	25	5	33	7	< 1.5	43	< 1	26	17
		14105	0 - 15	< 0.8	< 5	26	< 0.8	35	7	22	3	< 1.5	28	< 1	33	21
Area B gravel	5037048	14100	0 - 5	< 0.8	< 5	68	< 0.8	29	12	100	9	< 1.5	81	< 1	68	34
		14101	0 - 5	< 0.8	< 5	65	< 0.8	29	15	96	8	< 1.5	64	< 1	66	29
Area C grass	5037049	14102	0 - 5	< 0.8	< 5	52	< 0.8	41	10	130	16	< 1.5	<u>160</u>	1.1	35	40
		14103	0 - 5	< 0.8	< 5	47	< 0.8	39	9	150	19	< 1.5	140	1.1	33	38
Table F (results in bold)				1.0	14	190	1.0	67	19	56	55	2.5	43	1.4	91	150
Table A (results in bold and underlined)				13	20	750	12	750	40	225	200	5.0	150	10	200	600
< - less than the Method Detection Limit.																
Al, Ca, Fe, Mg, Mn, and Sr results can be found in Table 4.1.																

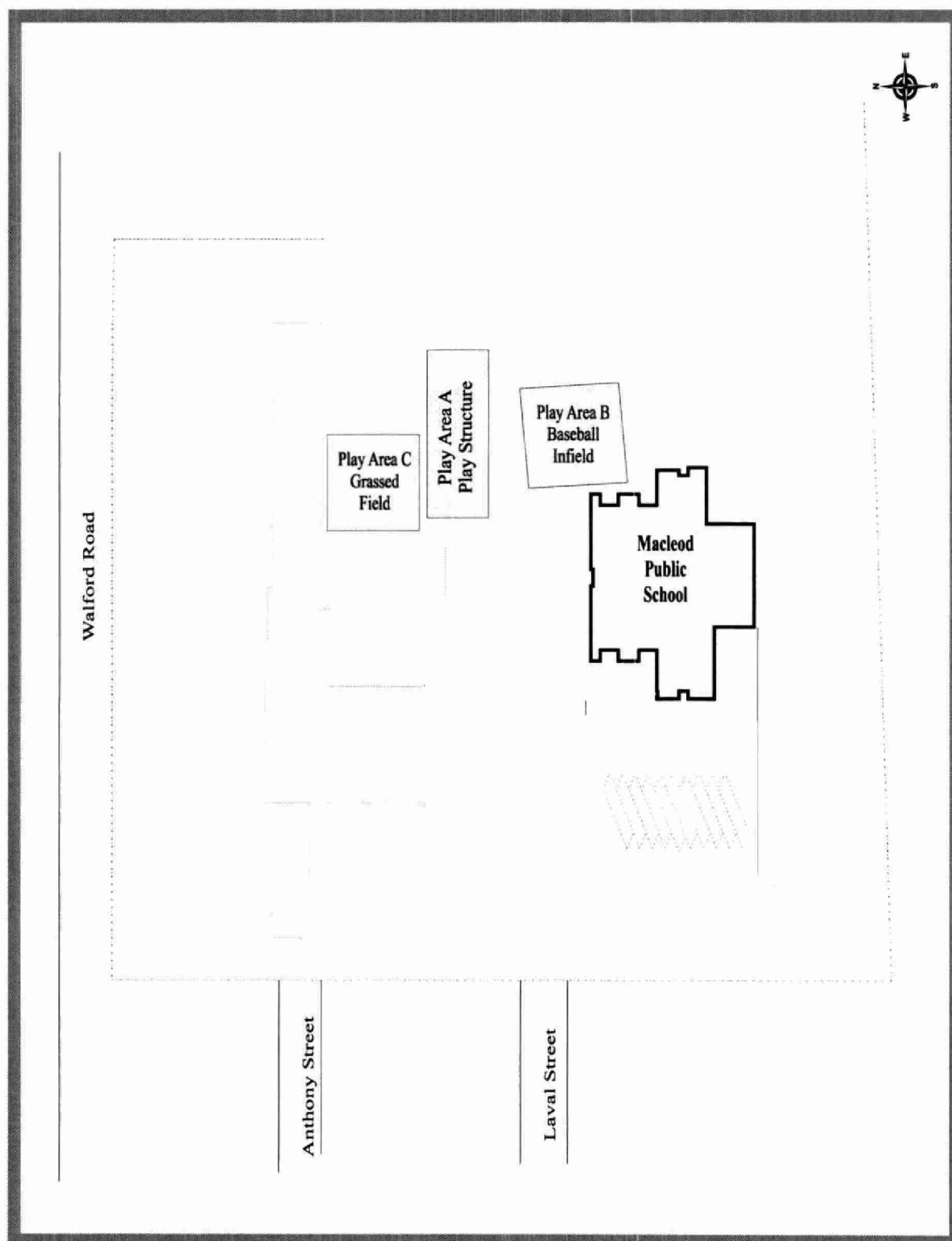


Figure B2.1.26: MacLeod Public School Sampling Locations - 2001.

2.1.27 Northeastern Secondary School - Rainbow District School Board 45 Spruce Street, Garson

Northeastern Secondary School was sampled on July 18, 2001 and has since been renamed Northeastern Elementary School. Figure B2.1.27 details the sampling locations at this property. Samples were taken from three areas on the school property. Area A corresponds to samples taken from the grassed area of the football field. Area B corresponds to samples taken from the baseball diamond outfield. Due to the compacted nature of Areas B, it was only possible to sample the surface soil (0-5 cm). Area C corresponds to the gravel samples that were taken from the baseball diamond infield. Hand trowels were used to collect gravel samples to represent the 0-5 cm depth. All data were compared with the MOE Table F Ontario Soil Background Criteria and Table A Effects Based Soil Criteria (MOE 1997).

Nickel (Ni) and copper (Cu) concentrations were elevated above the MOE Table F Ontario Soil Background Criteria in most samples from this property. The highest nickel and copper concentrations on this property were found in the surface soil layer (0-5 cm) of the baseball diamond outfield with concentrations of 250 and 210 ppm, respectively. All other metals listed, as well as aluminum (Al), calcium (Ca), iron (Fe), magnesium (Mg), manganese (Mn), and strontium (Sr) which are not listed, were below the MOE Table F Ontario Soil Background Criteria. Nickel concentrations exceeded the MOE Table A Effects Based Soil Criteria at two locations at this property.

These nickel surface soil results are slightly higher than those reported historically. Previous MOE sampling of undisturbed soils approximately 0.5 km south of Northeastern Secondary School, Station 39 of the MOE Sudbury 2000 Report for the City of Greater Sudbury (MOE 2001), indicated nickel surface soil concentrations of 100 to 130 ppm. These copper surface soil results are similar to what has been reported historically for this site, with the highest concentrations being 200 ppm. Historic MOE sampling in the Sudbury area was of undeveloped surface soils which may not be representative of the materials sampled on this property.

Table B2.1.27: Concentration of 13 Elements in Soil in µg/g Collected at Northeastern Secondary, 45 Spruce Street, Garson - 2001

Map ID	Station	Sample Number	Soil Depth	Sb	As	Ba	Cd	Cr	Co	Cu	Pb	Mo	Ni	Se	V	Zn
Area A grass	5037322	14407	0 - 5	< 0.8	8	32	< 0.8	26	8	88	27	< 1.5	120	< 1	26	37
		14408	0 - 5	< 0.8	9	39	< 0.8	30	10	140	51	< 1.5	<u>180</u>	< 1	27	45
		14409	5 - 10	< 0.8	6	28	< 0.8	28	5	30	11	< 1.5	52	< 1	30	27
		14410	5 - 10	< 0.8	8	36	< 0.8	31	5	31	10	< 1.5	51	< 1	36	33
		14413	10 - 20	< 0.8	6	35	< 0.8	28	5	25	9	< 1.5	38	< 1	31	25
		14414	10 - 20	< 0.8	6	24	< 0.8	21	4	16	4	< 1.5	26	< 1	23	15
Area B grass	5037323	14405	0 - 5	< 0.8	9	48	0.9	26	15	210	45	< 1.5	<u>250</u>	1	25	72
		14406	0 - 5	< 0.8	7	37	< 0.8	25	8	81	15	< 1.5	110	< 1	27	35
Area C gravel	5037324	14411	0 - 5	< 0.8	7	30	< 0.8	27	6	37	8	< 1.5	58	< 1	29	30
		14412	0 - 5	< 0.8	6	29	< 0.8	28	6	33	9	< 1.5	58	< 1	30	27
Table F (results in bold)				1.0	14	190	1.0	67	19	56	55	2.5	43	1.4	91	150
Table A (results in bold and underlined)				13	20	750	12	750	40	225	200	5.0	150	10	200	600
< - less than the Method Detection Limit.																
Al, Ca, Fe, Mg, Mn, and Sr results can be found in Table 4.1.																

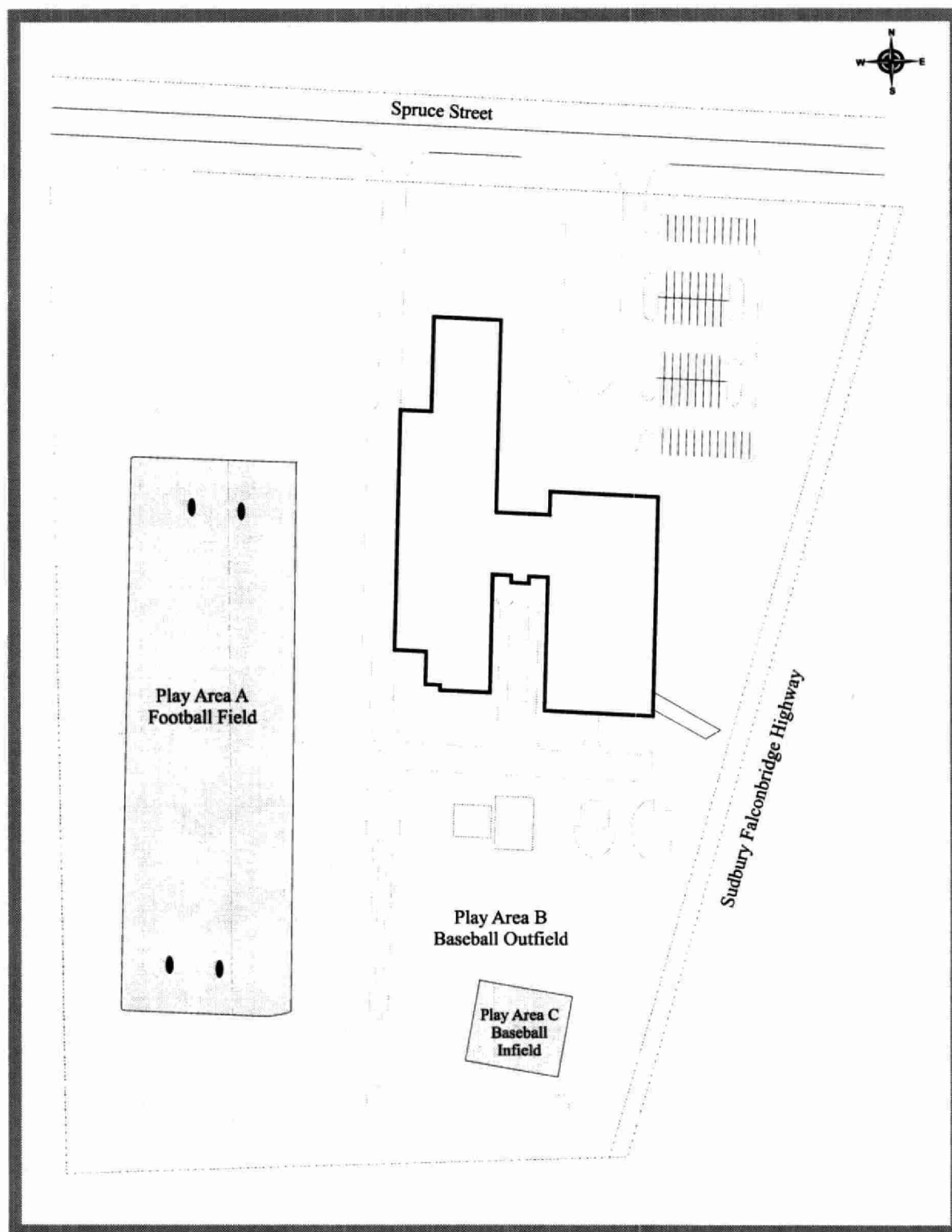


Figure B2.1.27: Northeastern Secondary School Sampling Locations - 2001.

2.1.28 Pinecrest Public School - Rainbow District School Board 1650 Dominion Drive, Hanmer

Pinecrest Public School was sampled on July 20, 2001. Figure B2.1.28 details the sampling locations at this property. Samples were taken from five areas on the school property. Area A and E correspond to samples taken from the grassed area of the soccer field and the worn areas around the goal posts, respectively. Area B corresponds to samples taken from the baseball diamond infield. Due to the compacted nature of Areas A, B and E, it was only possible to sample the surface soil (0-5 cm). Area C corresponds to sand samples taken from the landing area of the long jump pit. Due to the constant mixing of sand and the homogeneous nature of the sanded areas, sand samples were collected with hand trowels to represent the 0-15 cm depth. Area D corresponds to the gravel playground. Hand trowels were also used to collect the gravel samples to represent the 0-5 cm depth. All data were compared with the MOE Table F Ontario Soil Background Criteria and Table A Effects Based Soil Criteria (MOE 1997).

Metal concentrations were not elevated in the sand of the landing area of the long jump pit. The sand present is not likely native to the school property and is believed to have been introduced when the sanded play areas were constructed. Thus the sand was not expected to have elevated metal concentrations. Nickel (Ni) concentrations were elevated above the MOE Table F Ontario Soil Background Criteria for all samples from the soccer field, baseball diamond infield, and gravel playground. Copper (Cu) concentrations were elevated above the MOE Table F Ontario Soil Background Criteria in both samples taken from the gravel playground. The highest nickel and copper concentrations on this property were found in the gravel from the playground with concentrations of 130 and 83 ppm, respectively. All other metals listed, as well as aluminum (Al), calcium (Ca), iron (Fe), magnesium (Mg), manganese (Mn), and strontium (Sr) which are not listed, were below the MOE Table F Ontario Soil Background Criteria. There were no exceedences of the MOE Table A Effects Based Soil Criteria at this property.

Table B2.1.28: Concentration of 13 Elements in Soil in µg/g Collected at Pinecrest Public School, 1650 Dominion Drive, Hanmer - 2001																
Map ID	Station	Sample Number	Soil Depth	Sb	As	Ba	Cd	Cr	Co	Cu	Pb	Mo	Ni	Se	V	Zn
Area A grass	5037318	14661	0 - 5	< 0.8	6	34	< 0.8	27	5	40	12	< 1.5	54	< 1	28	26
		14662	0 - 5	< 0.8	< 5	36	< 0.8	27	4	37	9	< 1.5	44	< 1	28	24
		14663	5 - 10	< 0.8	6	31	< 0.8	26	5	39	11	< 1.5	52	< 1	26	29
		14664	5 - 10	< 0.8	5	35	< 0.8	27	5	31	9	< 1.5	45	< 1	27	24
Area B soil	5037319	14669	0 - 5	< 0.8	5	29	< 0.8	27	4	38	14	< 1.5	41	< 1	26	34
Area C sand	5037320	14666	0 - 15	< 0.8	< 5	20	< 0.8	25	7	12	3	< 1.5	17	< 1	28	15
Area D gravel	5037321	14667	0 - 5	< 0.8	5	49	< 0.8	46	16	81	11	< 1.5	130	< 1	44	42
		14668	0 - 5	< 0.8	< 5	49	< 0.8	46	15	83	10	< 1.5	120	< 1	45	41
Area E soil	5030971	14665	0 - 5	< 0.8	5	31	< 0.8	28	5	35	10	< 1.5	49	< 1	27	33
Table F (results in bold)				1.0	14	190	1.0	67	19	56	55	2.5	43	1.4	91	150
Table A (results in bold and underlined)				13	20	750	12	750	40	225	200	5.0	150	10	200	600
< - less than the Method Detection Limit.																
Al, Ca, Fe, Mg, Mn, and Sr results can be found in Table 4.1.																

The nickel and copper results from the gravel playground are similar to those reported historically. Previous MOE sampling of undisturbed soils approximately 2 km east and 3 km southwest of Pinecrest Public School, Stations 15 and 344, respectively, of the MOE Sudbury 2000 Report for

the City of Greater Sudbury (MOE 2001), indicated nickel and copper surface soil concentrations of 84 and 100 ppm, respectively. Historic MOE sampling in the Sudbury area was of undeveloped surface soils which may not be representative of the materials sampled on this property.

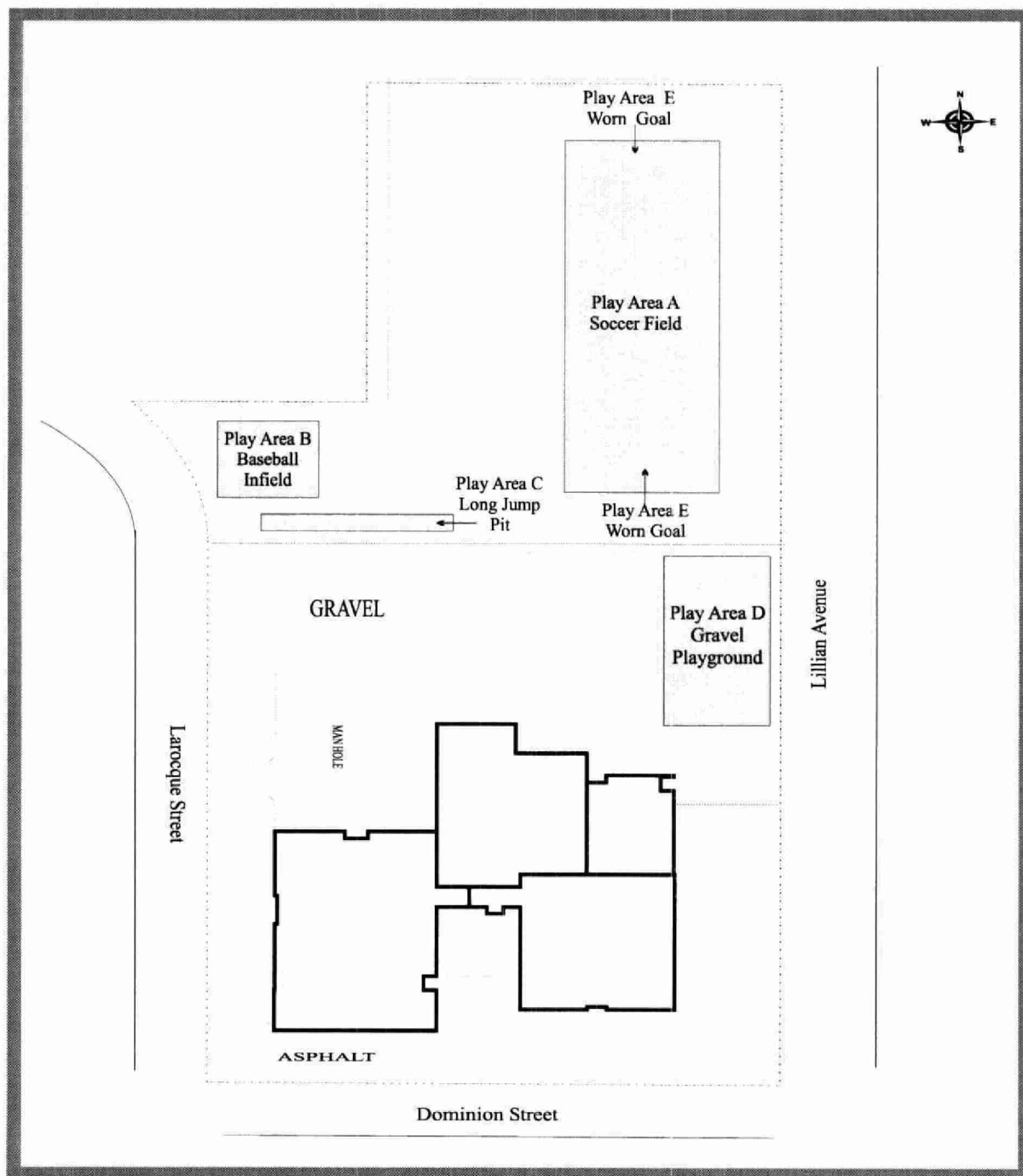


Figure B2.1.28: Pinecrest Public School Sampling Locations - 2001.

2.1.29 Princess Anne Public School - Rainbow District School Board 500 Douglas Street, Sudbury

Princess Anne Public School, including Princess Anne Kids, was sampled on July 5, 2001. Figure B2.1.29 details the sampling locations at this property. Samples were taken from three areas on the school property. Area A corresponds to samples taken from the gravel of the baseball diamond infield. Area B corresponds to samples taken from the grassed area of the baseball diamond outfield. Due to the compacted nature of Areas A, and B, it was only possible to sample all three depths for one replicate of the outfield and the surface (0-5 cm) layer of the infield. Area C corresponds to sand samples taken from the sand box. Due to the constant mixing of sand and the homogeneous nature of the sanded areas, sand samples were collected with hand trowels to represent the 0-15 cm depth. All data were compared with the MOE Table F Ontario Soil Background Criteria and Table A Effects Based Soil Criteria (MOE 1997).

Metal concentrations were not elevated in the sand of the sand box. The sand present is not likely native to the school property and is believed to have been introduced when the play area was constructed. Thus the sand was not expected to have elevated metal concentrations. Nickel (Ni) and copper (Cu) concentrations were elevated above the MOE Table F Ontario Soil Background Criteria, and in most cases for nickel, above the MOE Table A Effects Based Soil Criteria, for all other samples collected from this property. The highest nickel and copper concentrations on this property were found in the 5 - 10 cm depth sample of the baseball diamond outfield with concentrations of 370 and 240 ppm, respectively. The presence of darkly stained rocks, believed to be slag, was noted on the east side of the baseball diamond. All other metals listed, as well as aluminum (Al), calcium (Ca), iron (Fe), magnesium (Mg), manganese (Mn), and strontium (Sr) which are not listed, were below the MOE Table F Ontario Soil Background Criteria.

These nickel and copper soil results are higher than those reported historically. Previous MOE sampling of undisturbed soils approximately 70 m north of Princess Anne Public School, Station 378 of the MOE Sudbury 2000 Report for the City of Greater Sudbury (MOE 2001), indicated nickel and copper surface soil concentrations of 250 and 180 ppm, respectively. Historic MOE sampling in the Sudbury area was of undeveloped surface soils which may not be representative of the materials sampled on this property.

Table B2.1.29: Concentration of 13 Elements in Soil in µg/g Collected at Princess Anne Public School, 500 Douglas Street, Sudbury - 2001

Map ID	Station	Sample Number	Soil Depth	Sb	As	Ba	Cd	Cr	Co	Cu	Pb	Mo	Ni	Se	V	Zn
Area A gravel	5037106	14134	0 - 5	< 0.8	6	34	< 0.8	35	17	220	18	< 1.5	200	2	30	28
		14135	0 - 5	< 0.8	6	31	< 0.8	32	13	200	13	< 1.5	170	< 1	29	25
Area B grass	5037107	14136	0 - 5	< 0.8	7	46	< 0.8	39	11	200	43	< 1.5	280	< 1	31	33
		14137	0 - 5	< 0.8	7	45	< 0.8	35	13	240	21	< 1.5	300	2	31	37
		14139	5 - 10	< 0.8	8	56	< 0.8	38	13	240	17	< 1.5	370	1	33	38
		14140	10 - 20	< 0.8	< 5	41	< 0.8	29	8	120	10	< 1.5	170	< 1	27	27
Area C sand	5037108	14138	0 - 15	< 0.8	< 5	23	< 0.8	31	8	36	4	< 1.5	34	< 1	31	22
Table F (results in bold)				1.0	14	190	1.0	67	19	56	55	2.5	43	1.4	91	150
Table A (results in bold and underlined)				13	20	750	12	750	40	225	200	5.0	150	10	200	600
< - less than the Method Detection Limit.																
Al, Ca, Fe, Mg, Mn, and Sr results can be found in Table 4.1.																

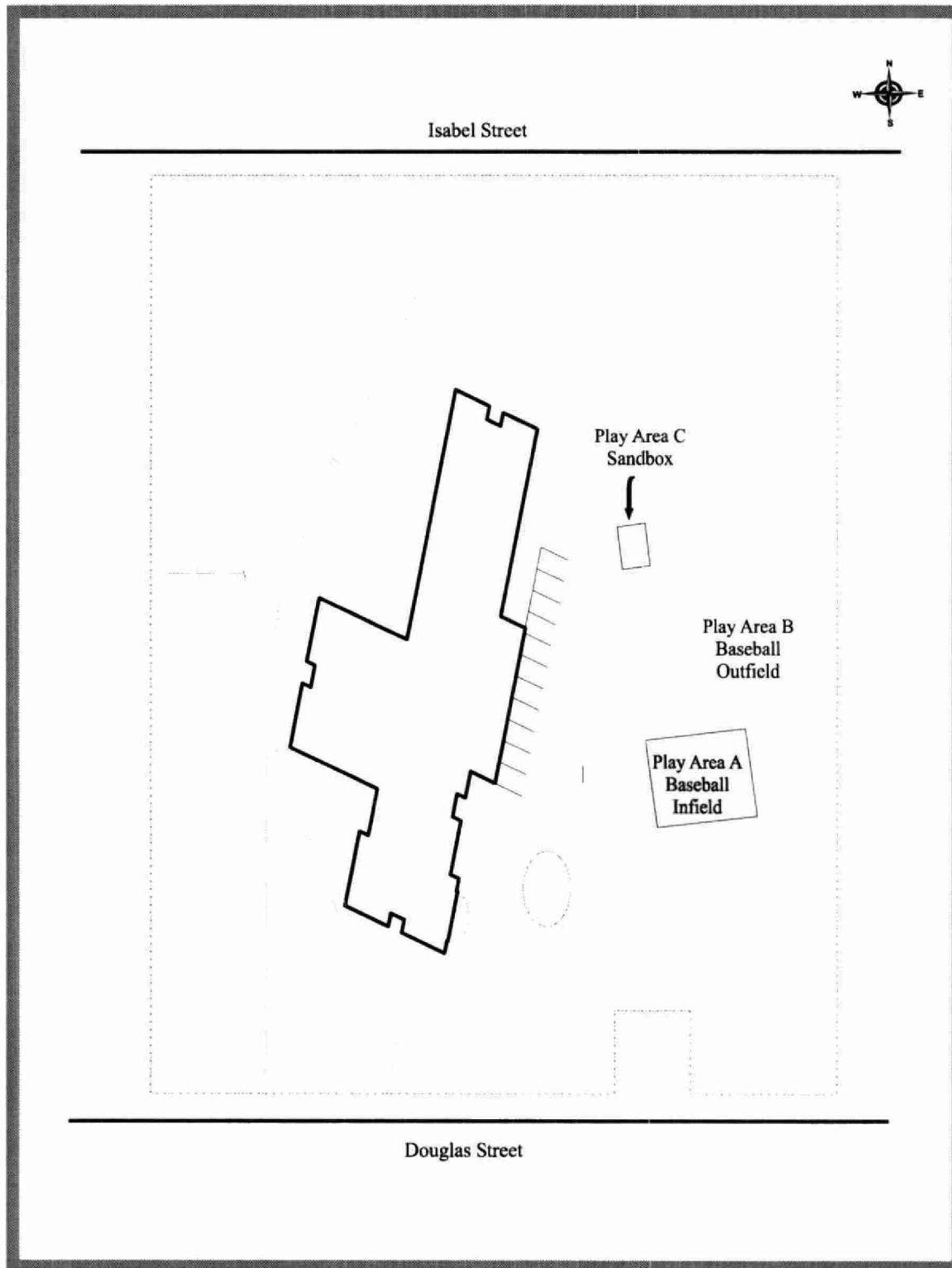


Figure B2.1.29: Princess Anne Public School Sampling Locations - 2001.

2.1.30 Queen Elizabeth II Public School - Rainbow District School Board 32 Dell Street, Sudbury

Queen Elizabeth II Public School was sampled on July 17, 2001. Figure B2.1.30 details the sampling locations at this property. Samples were taken from eight areas on the school property. Area A corresponds to samples taken from the grassed area of both soccer fields. Areas B and C correspond to samples taken from the worn areas around the west and east goal posts of both fields, respectively. Due to the compacted nature of Areas B and C, it was only possible to sample the surface soil (0-5 cm) layer. Area D corresponds to sand samples taken from below the play structure. Area E corresponds to sand samples taken from the landing area of the long jump pit. Due to the constant mixing of sand and the homogeneous nature of the sanded areas, sand samples were collected with hand trowels to represent the 0-15 cm depth. Areas F, G, and H correspond to gravel samples taken from the shared baseball diamond outfield, and west and east infields, respectively. All data were compared with the MOE Table F Ontario Soil Background Criteria and Table A Effects Based Soil Criteria (MOE 1997).

Metal concentrations were not elevated in the sand from below the play structure or from the landing area of the long jump pit. The sand present is not likely native to the school properties and is believed to have been introduced when the play area was constructed. Thus the sand was not expected to have elevated metal concentrations. Nickel (Ni), and in most cases copper (Cu), concentrations were elevated above the MOE Table F Ontario Soil Background Criteria for all other samples taken from this property. Nickel and copper concentrations were elevated above the MOE Table A Effects Based Soil Criteria for the gravel samples taken from the baseball diamonds. The highest nickel and copper concentrations on this property were found at the east baseball diamond infield with concentrations of 370 and 300 ppm, respectively. All other metals listed, as well as aluminum (Al), calcium (Ca), iron (Fe), magnesium (Mg), manganese (Mn), and strontium (Sr) which are not listed, were below the MOE Table F Ontario Soil Background Criteria.

These nickel and copper soil results are lower than those reported historically. Previous MOE sampling of undisturbed soils approximately 1.4 km northwest and 1.4 km southwest of Queen Elizabeth II Public School, Stations 362 and 84, respectively, of the MOE Sudbury 2000 Report for the City of Greater Sudbury (MOE 2001), indicated nickel and copper surface soil concentrations as high as 490 and 520 ppm, respectively. Historic MOE sampling in the Sudbury area was of undeveloped surface soils which may not be representative of the materials sampled on this property.

Table B2.1.30: Concentration of 13 Elements in Soil in µg/g Collected at Queen Elizabeth II Public School, 32 Dell Street, Sudbury - 2001																
Map ID	Station	Sample Number	Soil Depth	Sb	As	Ba	Cd	Cr	Co	Cu	Pb	Mo	Ni	Se	V	Zn
Area A grass	5037119	14269	0 - 5	< 0.8	7	35	< 0.8	29	8	120	15	< 1.5	120	< 1	29	28
		14270	0 - 5	< 0.8	9	37	< 0.8	25	8	130	17	< 1.5	130	< 1	28	29
		14271	5 - 10	< 0.8	7	34	< 0.8	25	7	92	12	< 1.5	99	< 1	28	26
		14272	5 - 10	< 0.8	6	33	< 0.8	25	6	73	9	< 1.5	83	< 1	28	25
		14280	10 - 20	< 0.8	6	35	< 0.8	27	6	43	7	< 1.5	54	< 1	31	24
		14281	10 - 20	< 0.8	< 5	32	< 0.8	28	6	49	7	< 1.5	61	< 1	27	23
Area B soil	5037120	14273	0 - 5	< 0.8	8	30	< 0.8	24	5	45	9	< 1.5	63	< 1	27	22
Area C soil	5037121	14274	0 - 5	< 0.8	6	37	< 0.8	27	7	100	14	< 1.5	120	< 1	28	26
Area D sand	5037122	14275	0 - 15	< 0.8	< 5	20	< 0.8	31	7	32	3	< 1.5	37	< 1	33	42
		14276	0 - 15	< 0.8	6	20	< 0.8	27	7	23	3	< 1.5	26	< 1	29	22
Area E sand	5037123	14277	0 - 15	< 0.8	< 5	20	< 0.8	25	7	26	3	< 1.5	34	< 1	29	17
Area F gravel	5037124	14282	0 - 5	< 0.8	7	36	< 0.8	32	16	210	19	< 1.5	240	< 1	30	38
		14283	0 - 5	< 0.8	8	39	0.8	31	17	260	26	< 1.5	270	1	29	58
Area G gravel	5037125	14278	0 - 5	< 0.8	7	34	< 0.8	29	16	210	23	< 1.5	240	< 1	31	110
Area H gravel	5037126	14279	0 - 5	< 0.8	9	40	1	29	20	300	30	< 1.5	370	1	29	65
Table F (results in bold)				1.0	14	190	1.0	67	19	56	55	2.5	43	1.4	91	150
Table A (results in bold and underlined)				13	20	750	12	750	40	225	200	5.0	150	10	200	600
< - less than the Method Detection Limit.				Al, Ca, Fe, Mg, Mn, and Sr results can be found in Table 4.1.												

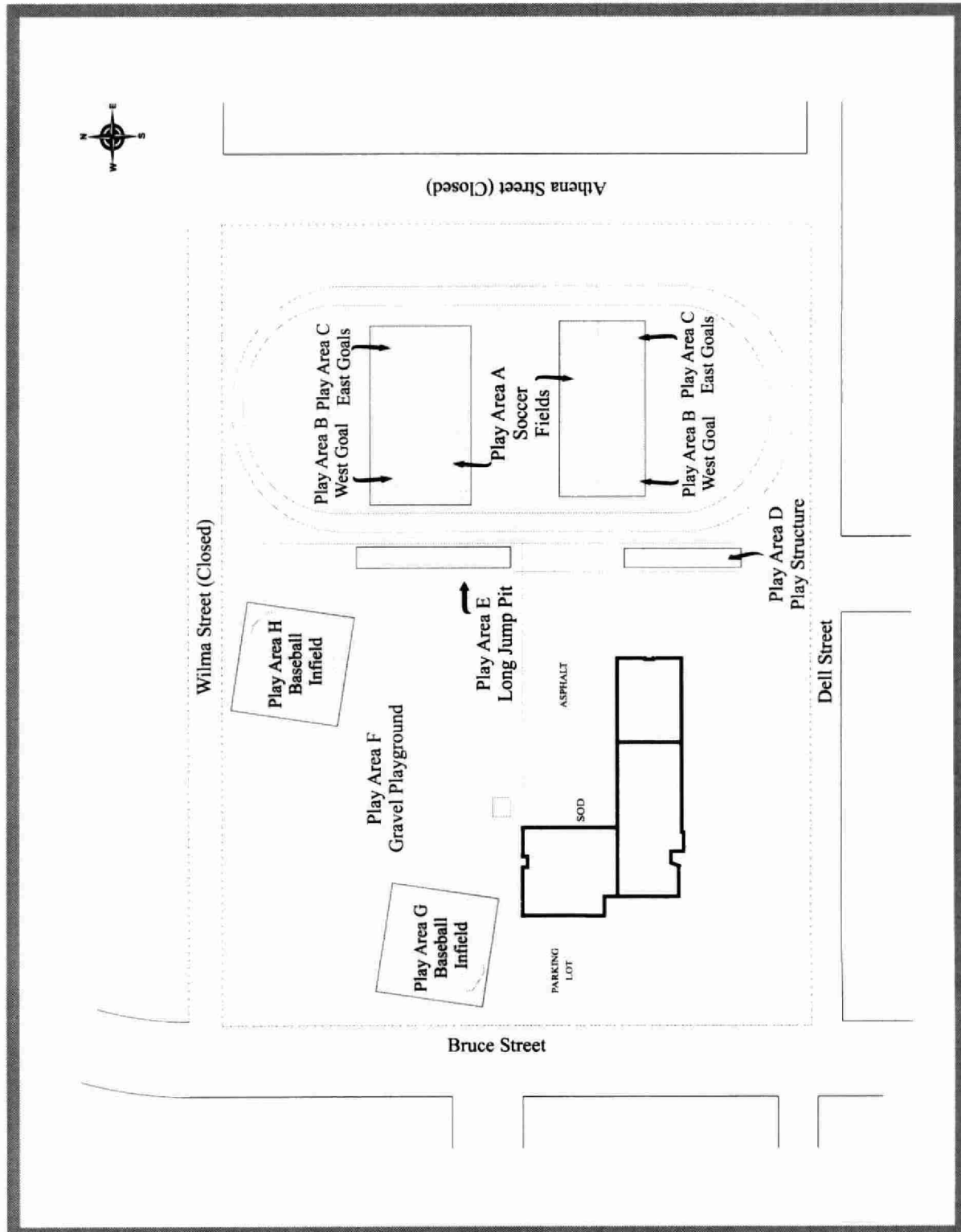


Figure B2.1.30: Queen Elizabeth II Public School Sampling Locations - 2001.

2.1.31 R. H. Murray Public School - Rainbow District School Board 3 Henry Street, Whitefish

R. H. Murray Public School was sampled on July 21, 2001. Figure B2.1.31 details the sampling locations at this property. Samples were taken from three areas on the school property. Area A corresponds to the soccer field. Area B corresponds to the worn areas at the north and south goal posts. Due to the compacted nature of these areas it was only possible to sample the surface soil (0 - 5 cm). Area C corresponds to sand samples that were taken from below the play structure. Due to the constant mixing of sand and homogenous nature of the sanded areas, sand samples were collected with hand trowels to represent the 0-15 cm depth. All data were compared with the MOE Table F Ontario Soil Background Criteria and Table A Effects Based Soil Criteria (MOE 1997).

Metal concentrations were not elevated in the sand beneath the play structure. The sand present is not likely native to the school property and is believed to have been introduced when the sanded play areas were constructed. Thus the sand was not expected to have elevated metal concentrations. None of the samples from this property were found to have metal concentrations above the MOE Table F Ontario Soil Background Criteria. In addition, aluminum (Al), calcium (Ca), iron (Fe), magnesium (Mg), manganese (Mn), and strontium (Sr) which are not listed, were also below the MOE Table F Ontario Soil Background Criteria.

These soil results are similar to those reported historically for the City of Greater Sudbury (MOE 2001). Previous MOE sampling of undisturbed soils approximately 2.5 km northwest, 2.2 km north and 0.5 km southwest of R.H. Murray Public School, Stations 394, 397, and 103, respectively, of the MOE Sudbury 2000 Report (MOE 2001), indicated nickel and copper concentration ranges of 20 to 76, and 21 to 100 ppm, respectively. As indicated on the R.H. Murray school map provided, the soccer field has been built above a septic field. Therefore, the soil history at this site is not known due to the potential soil disturbance during installation of the septic tank. Historic MOE sampling in the Sudbury area was of undeveloped surface soils which may not be representative of all materials sampled on this property.

Table B2.1.31: Concentration of 13 Elements in Soil in µg/g Collected at R.H. Murray Public School, 3 Henry Street, Whitefish - 2001																
Map ID	Station	Sample Number	Soil Depth	Sb	As	Ba	Cd	Cr	Co	Cu	Pb	Mo	Ni	Se	V	Zn
Area A grass	5037409	14744	0 - 5	< 0.8	< 5	62	< 0.8	23	5	24	11	< 1.5	32	< 1	29	45
		14745	0 - 5	< 0.8	< 5	74	< 0.8	27	6	29	13	< 1.5	37	< 1	31	53
Area B soil	5037410	14746	0 - 5	< 0.8	< 5	81	< 0.8	37	6	22	9	< 1.5	27	< 1	38	47
Area C sand	5037411	14747	0 - 15	< 0.8	< 5	31	< 0.8	31	6	16	3	< 1.5	17	< 1	31	19
Table F (results in bold)				1.0	14	190	1.0	67	19	56	55	2.5	43	1.4	91	150
Table A (results in bold and underlined)				13	20	750	12	750	40	225	200	5.0	150	10	200	600
< - less than the Method Detection Limit.				Al, Ca, Fe, Mg, Mn, and Sr results can be found in Table 4.1.												

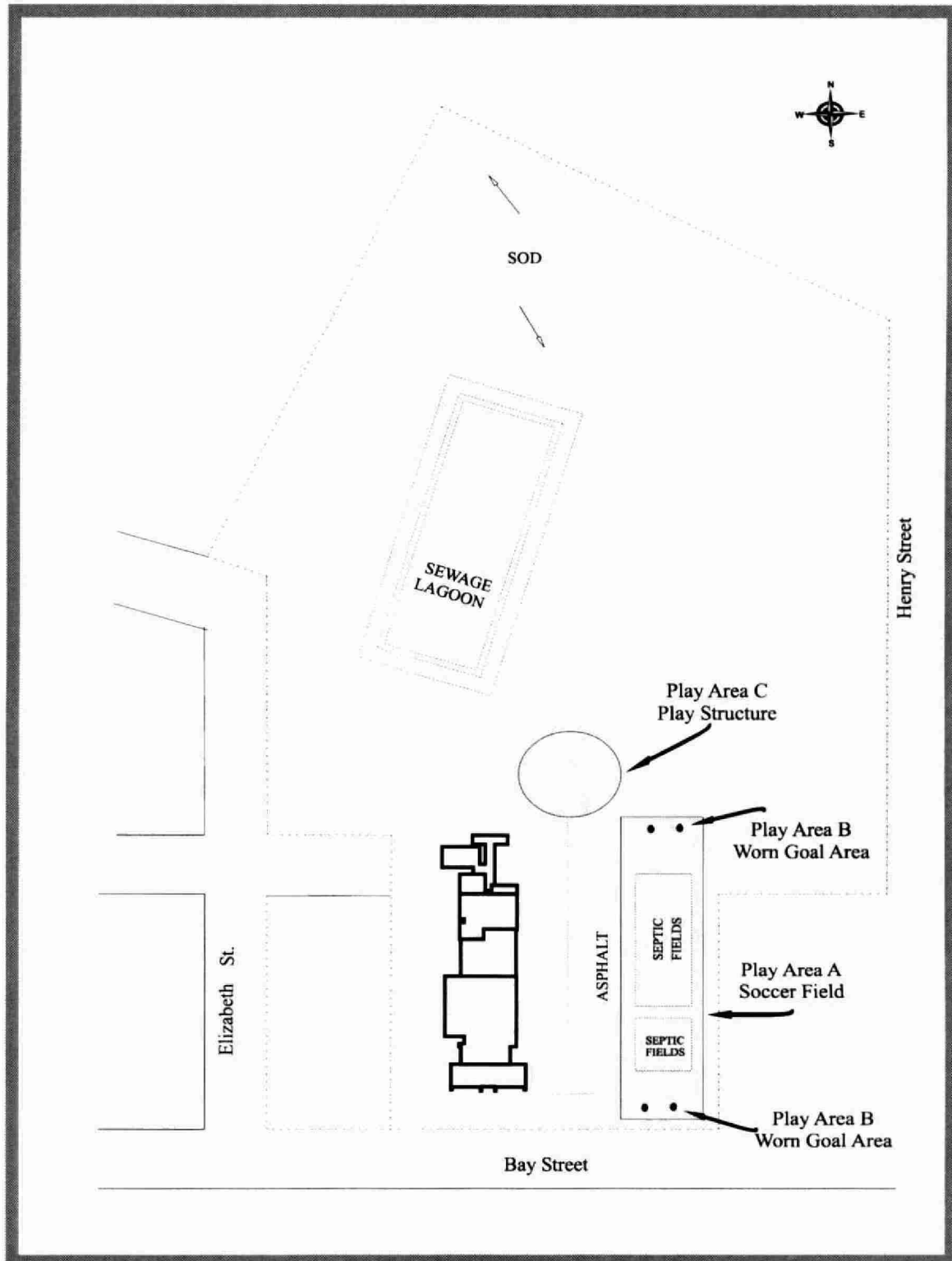


Figure B2.1.31: R. H. Murray Public School Sampling Locations - 2001.

2.1.32 R.L. Beattie Public School - Rainbow District School Board 102 Loach's Road, Sudbury

R. L. Beattie Public School, including Beattie Kids Daycare, was sampled on July 4, 2001. Figure B2.1.32 details the sampling locations at this property. Samples were taken from seven areas on the school property. Area A corresponds sand samples from below the climbers on the west side of the property. Area B corresponds sand samples from below the playground equipment on the north side of the school building. Area G corresponds to sand samples collected from below the play structure on the east side of the school property. Due to the constant mixing of sand and homogenous nature of the sanded areas, sand samples were collected with hand trowels to represent the 0-15 cm depth. Area C corresponds to the grassed area of the soccer field. Areas D and E correspond to the worn areas around the west and east soccer goal posts, respectively. Area F corresponds to the gravel sample of the baseball diamond infield. Due to the compacted nature of Areas C, D, E, and F it was only possible to sample the surface layer (0 - 5 cm). All data were compared with the MOE Table F Ontario Soil Background Criteria and Table A Effects Based Soil Criteria (MOE 1997).

Metal concentrations were not elevated in any of the sand samples from beneath the play structures. The sand present is not likely native to the school property and is believed to have been introduced when the sanded play areas were constructed. Thus the sand was not expected to have elevated metal concentrations. Nickel (Ni) and copper (Cu) concentrations were elevated above the MOE Table F Ontario Soil Background Criteria for all other grass and gravel samples taken from this property. The highest nickel and copper concentrations on this property were found at the worn area around the west soccer goal post with concentrations of 110 and 87 ppm, respectively. All other metals listed, as well as aluminum (Al), calcium (Ca), iron (Fe), magnesium (Mg), manganese (Mn), and strontium (Sr) which are not listed, were below the MOE Table F Ontario Soil Background Criteria. There were no exceedences of the MOE Table A Effects Based Soil Criteria at this property.

Table B2.1.32: Concentration of 13 Elements in Soil in µg/g Collected at R.L. Beattie Public School, 102 Loach's Road, Sudbury - 2001																
Map ID	Station	Sample Number	Soil Depth	Sb	As	Ba	Cd	Cr	Co	Cu	Pb	Mo	Ni	Se	V	Zn
Area A sand	5037032	14072	0 - 15	< 0.8	< 5	23	< 0.8	31	7	23	3	< 1.5	25	1	32	17
		14073	0 - 15	< 0.8	< 5	21	< 0.8	28	7	24	3	< 1.5	27	< 1	28	16
Area B sand	5037033	14074	0 - 15	< 0.8	< 5	20	< 0.8	30	7	25	3	< 1.5	28	< 1	29	17
		14075	0 - 15	< 0.8	< 5	20	< 0.8	30	6	21	3	< 1.5	23	< 1	28	17
Area C grass	5037034	14068	0 - 5	< 0.8	< 5	42	< 0.8	33	7	77	13	< 1.5	97	< 1	32	31
		14069	0 - 5	< 0.8	< 5	42	< 0.8	32	7	83	13	< 1.5	100	< 1	32	31
Area D soil	5037035	14071	0 - 5	0.9	< 5	52	< 0.8	36	8	87	15	< 1.5	110	< 1	32	36
Area E soil	5037036	14070	0 - 5	< 0.8	< 5	54	< 0.8	33	7	61	11	< 1.5	84	< 1	33	51
Area F gravel	5037037	14076	0 - 5	< 0.8	< 5	27	< 0.8	32	9	82	11	< 1.5	82	< 1	28	27
Area G sand	5037038	14077	0 - 15	< 0.8	< 5	22	< 0.8	29	7	19	3	< 1.5	21	< 1	28	16
Table F (results in bold)				1.0	14	190	1.0	67	19	56	55	2.5	43	1.4	91	150
Table A (results in bold and underlined)				13	20	750	12	750	40	225	200	5.0	150	10	200	600
< - less than the Method Detection Limit.				Al, Ca, Fe, Mg, Mn, and Sr results can be found in Table 4.1.												

These nickel and copper soil results are lower than those reported historically. Previous MOE sampling of undisturbed soils approximately 0.5 km southeast of R.L. Beattie Public School, Station 365 of the MOE Sudbury 2000 Report for the City of Greater Sudbury (MOE 2001), indicated nickel and copper surface soil concentrations as high as 190 ppm each. Historic MOE sampling in the

Sudbury area was of undeveloped surface soils which may not be representative of the materials sampled on this property.

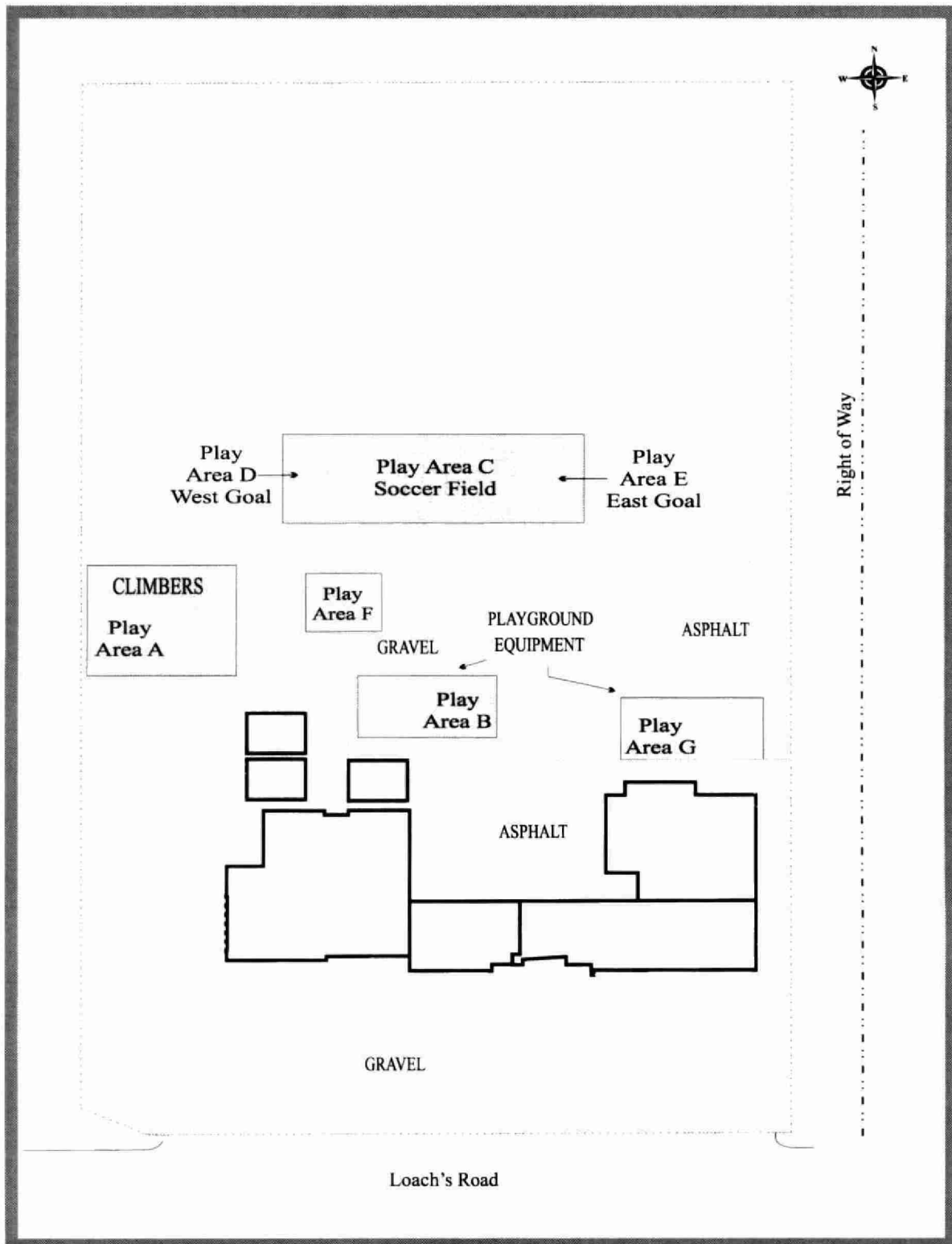


Figure B2.1.32: R.L. Beattie Public School Sampling Locations - 2001.

2.1.33 Redwood Acres Public School - Rainbow District School Board 4625 Carl Street, Hanmer

Redwood Acres Public School was sampled on July 20, 2001. Figure B2.1.33 details the sampling locations at this property. Samples were taken from seven areas on the school property. Area A corresponds to the grassed area of the north soccer field. Areas B and C correspond to the worn areas around the east and west goal posts of the north soccer field, respectively. Due to the compacted nature of Areas A, B, and C, it was only possible to sample to 10 cm for the north grassed soccer field and the surface soil (0 - 5 cm) layer around the worn goal posts. Area G corresponds to the grassed area of the south soccer field. Areas D and E correspond to samples taken from the south and north baseball diamond infields, respectively. Area F corresponds to sand samples collected from sand boxes on the east side of the school property. Due to the constant mixing of sand and homogenous nature of the sanded areas, sand samples were collected with hand trowels to represent the 0-15 cm depth. All data were compared with the MOE Table F Ontario Soil Background Criteria and Table A Effects Based Soil Criteria (MOE 1997).

Metal concentrations were not elevated in the sand samples from the sand boxes. The sand present is not likely native to the school property and is believed to have been introduced when the play area was constructed. Thus the sand was not expected to have elevated metal concentrations. Nickel (Ni) concentrations were elevated above the MOE Table F Ontario Soil Background Criteria at selected surface soil sites of the south grassed soccer field. The highest nickel concentrations on this property was found in the surface soil (0-5 cm) layer of the south soccer field with a concentration of 72 ppm.

Table B2.1.33: Concentration of 13 Elements in Soil in µg/g Collected at Redwood Acres Public School, 4625 Carl Street, Hanmer - 2001																
Map ID	Station	Sample Number	Soil Depth	Sb	As	Ba	Cd	Cr	Co	Cu	Pb	Mo	Ni	Se	V	Zn
Area A grass	5037332	14612	0 - 5	< 0.8	< 5	32	< 0.8	26	4	21	15	< 1.5	34	1	26	21
		14613	0 - 5	< 0.8	< 5	31	< 0.8	26	5	25	43	< 1.5	40	< 1	25	22
		14614	5 - 10	< 0.8	< 5	29	< 0.8	25	4	24	8	< 1.5	32	< 1	25	19
		14615	5 - 10	< 0.8	< 5	28	< 0.8	24	4	22	7	< 1.5	31	< 1	24	19
Area B soil	5037333	14607	0 - 5	< 0.8	< 5	28	< 0.8	25	5	20	9	< 1.5	32	< 1	24	21
Area C soil	5037334	14608	0 - 5	< 0.8	< 5	27	< 0.8	26	4	21	7	< 1.5	36	< 1	25	27
Area D soil	5037335	14609	0 - 5	< 0.8	< 5	35	< 0.8	34	10	44	7	< 1.5	40	< 1	35	31
Area E soil	5037336	14610	0 - 5	< 0.8	6	35	< 0.8	32	10	43	6	< 1.5	41	< 1	33	27
Area F sand	5037337	14611	0 - 15	< 0.8	< 5	20	< 0.8	23	6	15	3	< 1.5	16	< 1	29	20
Area G grass	5037338	14616	0 - 5	< 0.8	7	31	< 0.8	24	5	54	18	< 1.5	72	< 1	23	24
		14617	0 - 5	< 0.8	6	30	< 0.8	27	4	43	11	< 1.5	52	< 1	26	24
		14618	5 - 10	< 0.8	< 5	30	< 0.8	25	4	27	7	< 1.5	44	< 1	24	21
		14619	5 - 10	< 0.8	< 5	25	< 0.8	23	4	18	5	< 1.5	32	< 1	21	18
		14620	10 - 20	< 0.8	< 5	24	< 0.8	23	4	13	4	< 1.5	23	< 1	22	17
		14621	10 - 20	< 0.8	< 5	22	< 0.8	22	4	15	4	< 1.5	22	< 1	23	14
Table F (results in bold)				1.0	14	190	1.0	67	19	56	55	2.5	43	1.4	91	150
Table A (results in bold and underlined)				13	20	750	12	750	40	225	200	5.0	150	10	200	600
< - less than the Method Detection Limit. Al, Ca, Fe, Mg, Mn, and Sr results can be found in Table 4.1.																

All other metals listed, as well as aluminum (Al), calcium (Ca), iron (Fe), magnesium (Mg), manganese (Mn), and strontium (Sr) which are not listed, were below the MOE Table F Ontario Soil

Background Criteria. There were no exceedences of the MOE Table A Effects Based Soil Criteria at this property.

These nickel soil results are similar those reported historically. Previous MOE sampling of undisturbed soils approximately 2.5 km northwest, 2 km southwest, and 1.5 km southeast of Redwood Acres Public School, Stations 346, 347, and 350, respectively, of the MOE Sudbury 2000 Report for the City of Greater Sudbury (MOE 2001), indicated nickel surface soil concentrations of 43 to 150 ppm. Historic MOE sampling in the Sudbury area was of undeveloped surface soils which may not be representative of the materials sampled on this property.

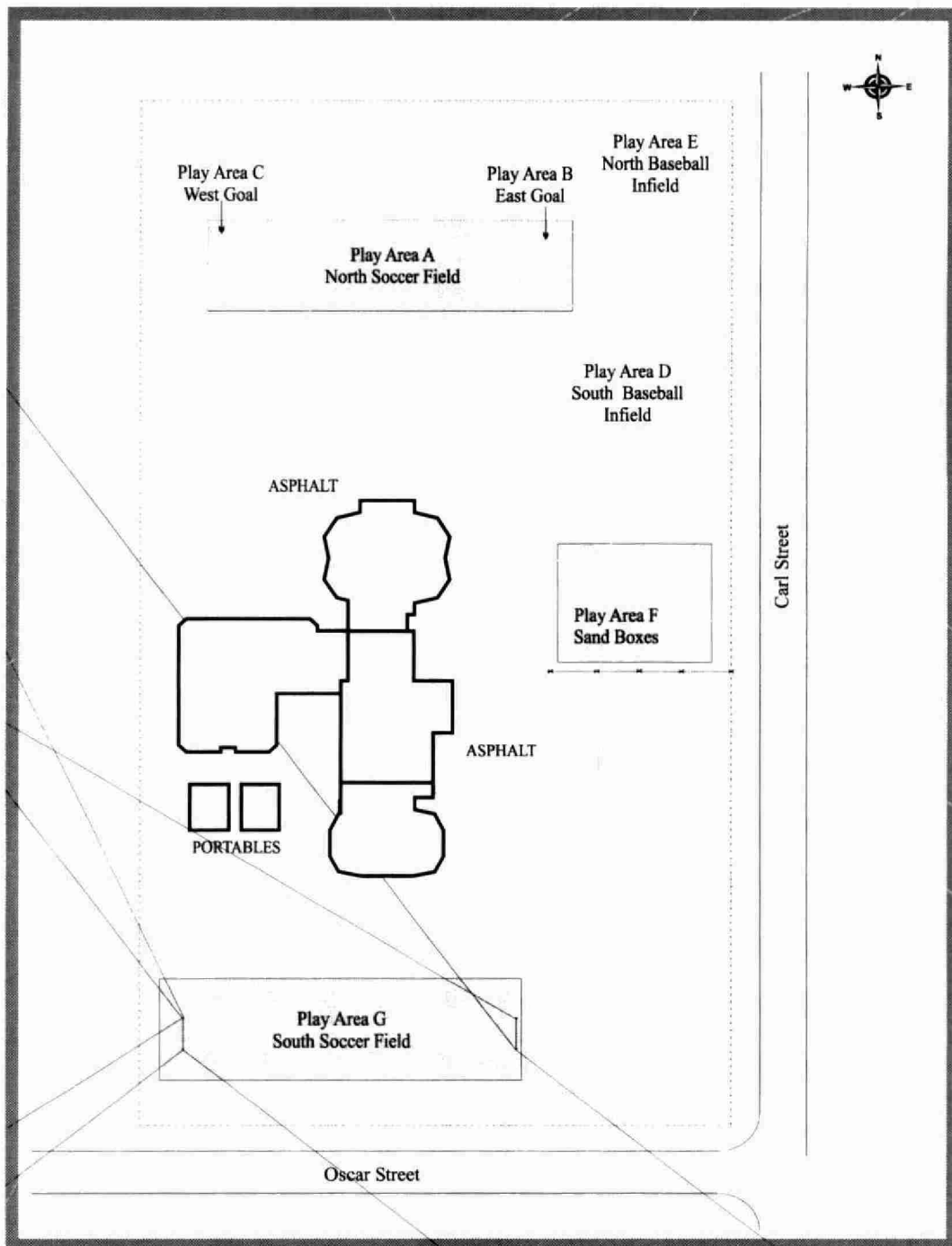


Figure B2.1.33: Redwood Acres Public School Sampling Locations - 2001.

2.1.34 Robert Jack Public School - Rainbow District School Board 7 Margaret Street, Garson

Robert Jack Public School, including R.J. Kids Daycare, was sampled on July 18, 2001 and has since closed at this location. Figure B2.1.34 details the sampling locations at this property. Samples were taken from three areas on the school property. Area A corresponds to the grassed baseball diamond outfield. Area B corresponds to the baseball diamond infield. Due to the compacted nature of Areas A and B, it was only possible to sample all three depths for one replicate of the outfield and the surface soil (0 - 5 cm) layer for the infield. Area C corresponds to the gravel playground. All data were compared with the MOE Table F Ontario Soil Background Criteria and Table A Effects Based Soil Criteria (MOE 1997).

Nickel (Ni), copper (Cu) and arsenic (As) concentrations were elevated above the MOE Table F Ontario Soil Background Criteria for selected sites of the baseball outfield and gravel playground. The highest nickel concentration on this property, 69 ppm, was found in the surface soil (0-5 cm) layer of the outfield, while the highest copper and arsenic concentrations, 71 and 15 ppm, respectively, were found in the 5-10 cm depth. All other metals listed, as well as aluminum (Al), calcium (Ca), iron (Fe), magnesium (Mg), manganese (Mn), and strontium (Sr) which are not listed, were below the MOE Table F Ontario Soil Background Criteria. There were no exceedences of the MOE Table A Effects Based Soil Criteria at this property.

These nickel soil results are similar those reported historically. Previous MOE sampling of undisturbed soils approximately 0.5 km south of Robert Jack Public School, Station 40 of the MOE Sudbury 2000 Report for the City of Greater Sudbury (MOE 2001), indicated nickel surface soil concentrations of 37 to 87 ppm. Historic MOE sampling in the Sudbury area was of undeveloped surface soils which may not be representative of the materials sampled on this property.

Table B2.1.34: Concentration of 13 Elements in Soil in µg/g Collected at Robert Jack Public School, 7 Margaret Street, Garson - 2001																
Map ID	Station	Sample Number	Soil Depth	Sb	As	Ba	Cd	Cr	Co	Cu	Pb	Mo	Ni	Se	V	Zn
Area A grass	5037272	14420	0 - 5	< 0.8	9	33	< 0.8	24	5	51	10	< 1.5	54	< 1	24	29
		14421	0 - 5	< 0.8	9	38	< 0.8	30	6	51	14	< 1.5	69	< 1	29	33
		14426	5 - 10	< 0.8	15	32	< 0.8	21	4	71	9	< 1.5	47	< 1	26	22
		14427	10 - 20	< 0.8	8	31	< 0.8	21	5	18	7	< 1.5	41	< 1	24	23
Area B soil	5037273	14422	0 - 5	< 0.8	5	35	< 0.8	29	6	26	6	< 1.5	41	< 1	28	70
		14423	0 - 5	< 0.8	< 5	32	< 0.8	28	6	23	5	< 1.5	35	< 1	29	29
Area C gravel	5037274	14424	0 - 5	< 0.8	7	34	< 0.8	32	15	45	6	< 1.5	56	< 1	33	29
		14425	0 - 5	< 0.8	6	34	< 0.8	32	15	61	6	< 1.5	61	< 1	31	30
Table F (results in bold)				1.0	14	190	1.0	67	19	56	55	2.5	43	1.4	91	150
Table A (results in bold and underlined)				13	20	750	12	750	40	225	200	5.0	150	10	200	600
< - less than the Method Detection Limit.				Al, Ca, Fe, Mg, Mn, and Sr results can be found in Table 4.1.												

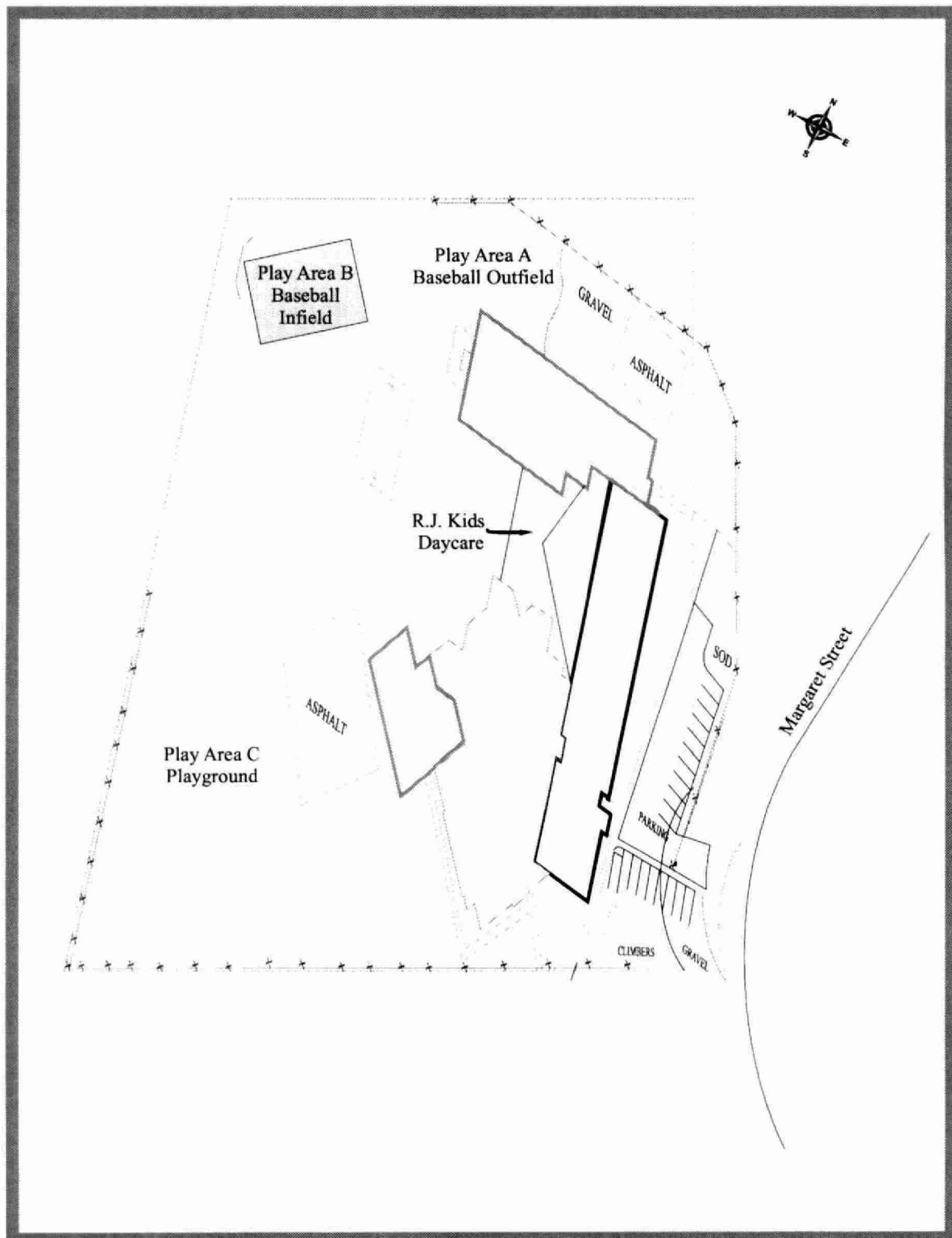


Figure B2.1.34: Robert Jack Public School Sampling Locations - 2001.

2.1.35 Sudbury Secondary School - Rainbow District School Board 85 Mackenzie Street, Sudbury

Sudbury Secondary School was sampled on July 16, 2001. Figure B2.1.35 details the sampling locations at this property. Samples were taken from three areas on the school property. Area A corresponds to the grassed area of the soccer field. Areas B and C correspond to the worn areas around the east and west goal posts, respectively. Due to the compacted nature of Areas B and C, it was only possible to sample the surface soil (0 - 5 cm) layer. All data were compared with the MOE Table F Ontario Soil Background Criteria and Table A Effects Based Soil Criteria (MOE 1997).

Nickel (Ni), and copper (Cu) concentrations were elevated above the MOE Table F Ontario Soil Background Criteria for all sites sampled on this property. The highest nickel and copper concentrations, 170 and 150 ppm, respectively, were found in the surface soil (0-5 cm) layer of the soccer field. All other metals listed, as well as aluminum (Al), calcium (Ca), iron (Fe), magnesium (Mg), manganese (Mn), and strontium (Sr) which are not listed, were below the MOE Table F Ontario Soil Background Criteria. There was one exceedence of the MOE Table A Effects Based Soil Criteria for nickel at this property.

These nickel and copper results are lower those reported historically. Previous MOE sampling of undisturbed soils approximately 0.8 km northwest of Sudbury Secondary School, Station 84 of the MOE Sudbury 2000 Report for the City of Greater Sudbury (MOE 2001), indicated nickel and copper surface soil concentrations as high as 490 and 520 ppm, respectively. Historic MOE sampling in the Sudbury area was of undeveloped surface soils which may not be representative of the materials sampled on this property.

Table B2.1.35: Concentration of 13 Elements in Soil in µg/g Collected at Sudbury Secondary School, 85 Mackenzie Street, Sudbury - 2001																
Map ID	Station	Sample Number	Soil Depth	Sb	As	Ba	Cd	Cr	Co	Cu	Pb	Mo	Ni	Se	V	Zn
Area A grass	5037131	14249	0 - 5	< 0.8	6	43	0.8	34	9	150	29	< 1.5	170	1	30	40
		14250	0 - 5	< 0.8	7	37	< 0.8	30	8	110	21	< 1.5	130	< 1	28	32
		14251	5 - 10	< 0.8	6	36	< 0.8	32	7	62	13	< 1.5	76	< 1	33	27
		14252	5 - 10	< 0.8	7	37	< 0.8	32	7	73	19	< 1.5	92	< 1	31	29
		14253	10 - 20	< 0.8	5	42	< 0.8	33	8	97	20	< 1.5	110	< 1	33	30
		14254	10 - 20	< 0.8	< 5	37	< 0.8	33	8	76	22	< 1.5	98	< 1	31	31
Area B soil	5037132	14255	0 - 5	< 0.8	6	39	< 0.8	32	8	85	16	< 1.5	100	< 1	33	31
Area C soil	5037133	14256	0 - 5	< 0.8	7	42	< 0.8	37	7	65	19	< 1.5	86	< 1	37	31
Table F (results in bold)				1.0	14	190	1.0	67	19	56	55	2.5	43	1.4	91	150
Table A (results in bold and underlined)				13	20	750	12	750	40	225	200	5.0	150	10	200	600
< - less than the Method Detection Limit.																
Al, Ca, Fe, Mg, Mn, and Sr results can be found in Table 4.1.																

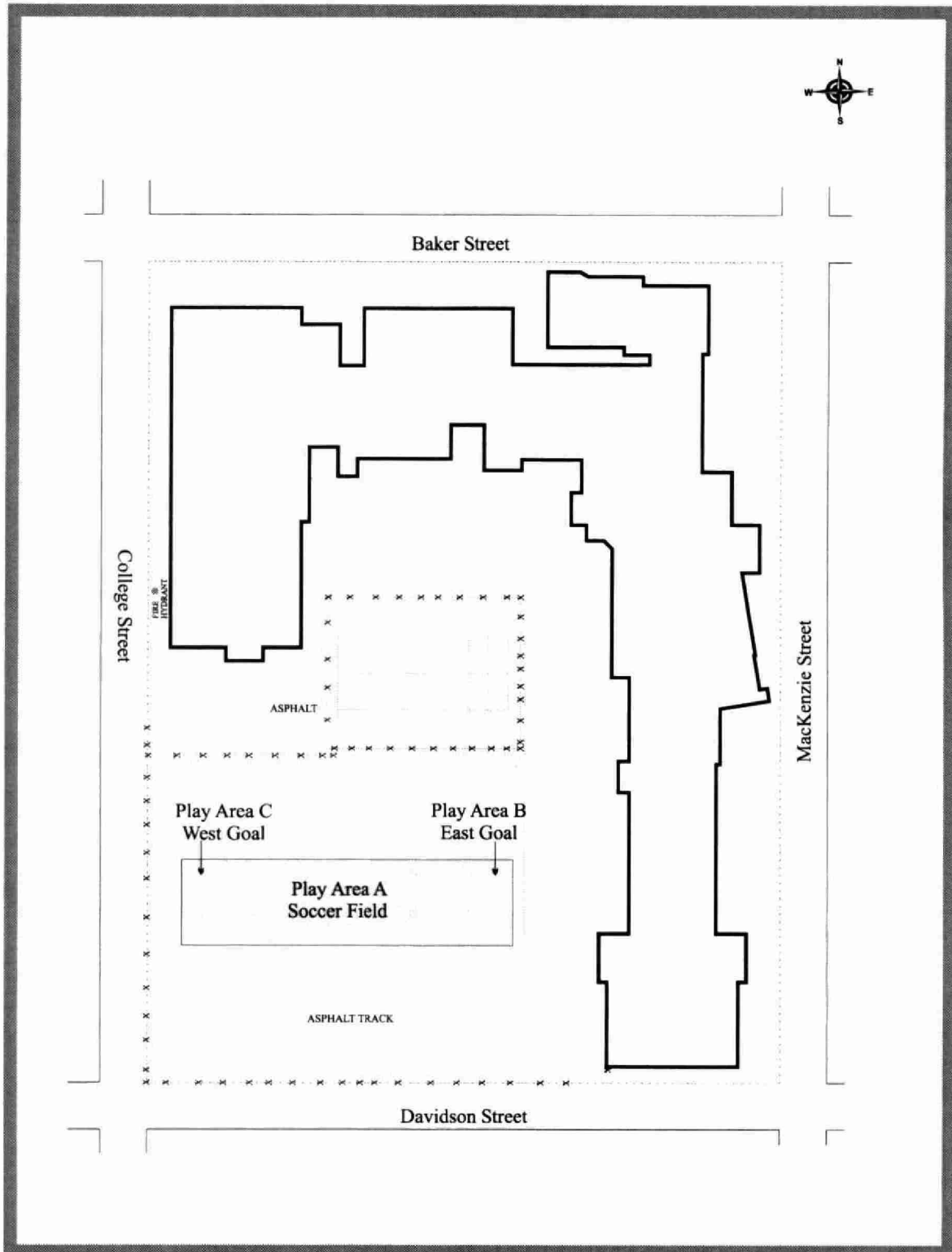


Figure B2.1.35: Sudbury Secondary School Sampling Locations - 2001.

2.1.36 Val Caron Public School - Rainbow District School Board 1555 Main Street East, Val Caron

Val Caron Public School was sampled on July 23, 2001. Figure B2.1.36 details the sampling locations at this property. Samples were taken from two areas on the school property. Area A corresponds to the grassed area on the east side of the school building. Area B corresponds to sand samples collected from beneath the play structures. Due to the constant mixing of sand and the homogeneous nature of the sanded areas, sand samples were collected with hand trowels to represent the 0-15 cm depth. All data were compared with the MOE Table F Ontario Soil Background Criteria and Table A Effects Based Soil Criteria (MOE 1997).

Metal concentrations were not elevated in the sand beneath the play structures. The sand present is not likely native to the school property and is believed to have been introduced when the sanded play areas were constructed. Thus the sand was not expected to have elevated metal concentrations. Nickel (Ni) concentrations were elevated above the MOE Table F Ontario Soil Background Criteria for all samples collected from the grassed area (Area A) of this property. The highest nickel concentration, 62 ppm, was found in the surface soil (0-5 cm) layer of the grassed play area. All other metals listed, as well as aluminum (Al), calcium (Ca), iron (Fe), magnesium (Mg), manganese (Mn), and strontium (Sr) which are not listed, were below the MOE Table F Ontario Soil Background Criteria. There were no exceedences of the MOE Table A Effects Based Soil Criteria at this property.

These nickel results are lower those reported historically. Previous MOE sampling of undisturbed soils approximately 1.8 km south of Val Caron Public School, Station 340 of the MOE Sudbury 2000 Report for the City of Greater Sudbury (MOE 2001), indicated a nickel surface soil concentration of 140 ppm. Historic MOE sampling in the Sudbury area was of undeveloped surface soils which may not be representative of the materials sampled on this property.

Table B2.1.36: Concentration of 13 Elements in Soil in µg/g Collected at Val Caron Public School, 1555 Main Street East, Val Caron - 2001																
Map ID	Station	Sample Number	Soil Depth	Sb	As	Ba	Cd	Cr	Co	Cu	Pb	Mo	Ni	Se	V	Zn
Area A grass	5037286	14778	0 - 5	< 0.8	< 5	46	< 0.8	36	7	47	16	< 1.5	62	< 1	34	43
		14779	0 - 5	< 0.8	< 5	48	< 0.8	37	7	42	14	< 1.5	55	< 1	35	37
		14780	5 - 10	< 0.8	< 5	44	< 0.8	35	6	42	14	< 1.5	58	< 1	32	41
		14781	5 - 10	< 0.8	< 5	46	< 0.8	38	7	41	15	< 1.5	56	< 1	35	43
		14782	10 - 20	< 0.8	< 5	36	< 0.8	28	5	42	12	< 1.5	57	< 1	27	26
		14783	10 - 20	< 0.8	< 5	40	< 0.8	35	6	45	12	< 1.5	52	< 1	33	39
Area B sand	5037287	14784	0 - 15	< 0.8	< 5	21	< 0.8	23	5	11	2	< 1.5	17	< 1	25	18
		14785	0 - 15	< 0.8	< 5	18	< 0.8	23	5	12	2	< 1.5	17	< 1	29	18
Table F (results in bold)				1.0	14	190	1.0	67	19	56	55	2.5	43	1.4	91	150
Table A (results in bold and underlined)				13	20	750	12	750	40	225	200	5.0	150	10	200	600
< - less than the Method Detection Limit.																
Al, Ca, Fe, Mg, Mn, and Sr results can be found in Table 4.1.																

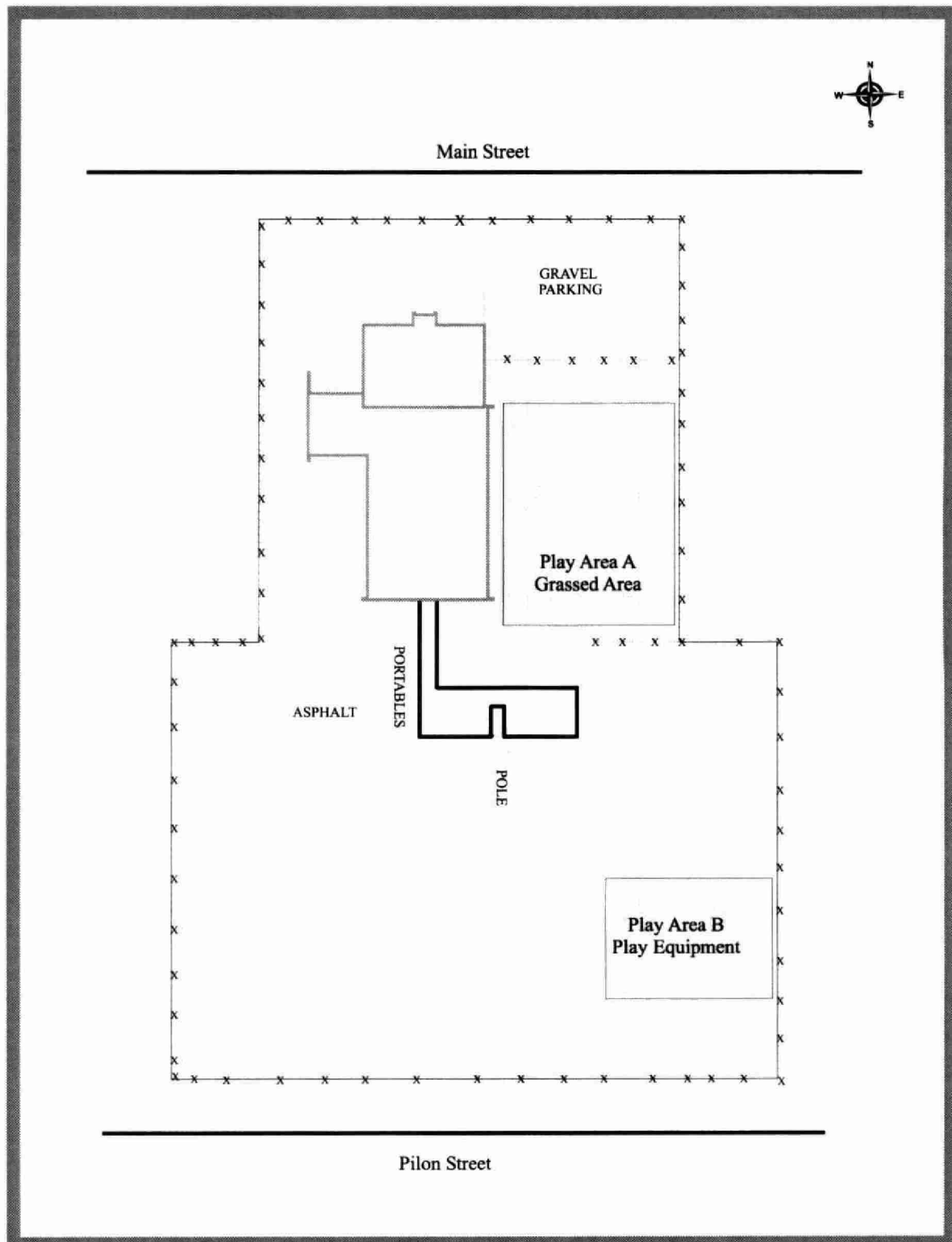


Figure B2.1.36: Val Caron Public School Sampling Locations - 2001.

2.1.37 Valleyview Public School - Rainbow District School Board 1840 Valley View Road, Val Caron

Valleyview Public School was sampled on July 23, 2001. Figure B2.1.37 details the sampling locations at this property. Samples were taken from five areas on the school property. Areas A and B correspond to the grassed area of the baseball diamond outfield and surface soil of the baseball diamond infield, respectively. Areas C and D correspond to the grassed area of the soccer field and the worn areas around the goal posts, respectively. Due to the compacted nature of Areas A, B, C, and D, it was only possible to sample to depth for one replicate of the baseball diamond outfield and the surface soil (0 - 5 cm) layer of the baseball diamond infield and soccer field. Area E corresponds to sand samples that were taken below the play structure on the north side of the school building. Due to the constant mixing of sand and the homogeneous nature of the sanded areas, sand samples were collected with hand trowels to represent the 0-15 cm depth. All data were compared with the MOE Table F Ontario Soil Background Criteria and Table A Effects Based Soil Criteria (MOE 1997).

Metal concentrations were not elevated in the sand beneath the play structure. The sand present is not likely native to the school property and is believed to have been introduced when the sanded play area was constructed. Thus the sand was not expected to have elevated metal concentrations. Nickel (Ni) concentrations were elevated above the MOE Table F Ontario Soil Background Criteria for all samples collected from the baseball diamond and soccer field. Copper (Cu) concentrations were also elevated above the MOE Table F Ontario Soil Background Criteria in the surface soil of the baseball diamond infield and grassed area of the soccer field. The highest nickel and copper concentrations, 120 and 91 ppm, respectively, were found in the surface soil (0-5 cm) layer of the grassed soccer field. All other metals listed, as well as aluminum (Al), calcium (Ca), iron (Fe), magnesium (Mg), manganese (Mn), and strontium (Sr) which are not listed, were below the MOE Table F Ontario Soil Background Criteria. There were no exceedences of the MOE Table A Effects Based Soil Criteria at this property.

Table B2.1.37: Concentration of 13 Elements in Soil in µg/g Collected at Valleyview Public School, 1840 Valley View Road, Val Caron - 2001																
Map ID	Station	Sample Number	Soil Depth	Sb	As	Ba	Cd	Cr	Co	Cu	Pb	Mo	Ni	Se	V	Zn
Area A grass	5037281	14826	0 - 5	< 0.8	< 5	45	< 0.8	37	7	48	14	< 1.5	65	< 1	36	31
		14827	0 - 5	< 0.8	< 5	43	< 0.8	37	7	46	14	< 1.5	64	< 1	34	31
		14828	5 - 10	< 0.8	< 5	42	< 0.8	37	7	38	12	< 1.5	59	< 1	33	29
		14829	10 - 20	< 0.8	< 5	39	< 0.8	35	7	31	10	< 1.5	57	< 1	35	28
Area B soil	5037282	14832	0 - 5	< 0.8	< 5	51	< 0.8	40	12	76	9	< 1.5	110	< 1	43	38
		14833	0 - 5	< 0.8	< 5	50	< 0.8	41	11	59	10	< 1.5	55	< 1	41	38
Area C grass	5037283	14834	0 - 5	< 0.8	< 5	53	< 0.8	40	10	90	21	< 1.5	120	1.2	32	51
		14835	0 - 5	< 0.8	< 5	54	< 0.8	41	9	91	22	< 1.5	120	1.2	33	56
Area D soil	5037284	14836	0 - 5	< 0.8	< 5	45	< 0.8	36	6	47	11	< 1.5	71	< 1	30	43
Area E sand	5037285	14837	0 - 15	< 0.8	< 5	23	< 0.8	25	6	13	2	< 1.5	23	< 1	31	17
		14838	0 - 15	< 0.8	< 5	20	< 0.8	23	5	12	2	< 1.5	20	< 1	22	16
Table F (results in bold)				1.0	14	190	1.0	67	19	56	55	2.5	43	1.4	91	150
Table A (results in bold and underlined)				13	20	750	12	750	40	225	200	5.0	150	10	200	600
< - less than the Method Detection Limit.																
Al, Ca, Fe, Mg, Mn, and Sr results can be found in Table 4.1																

These nickel and copper results are similar to those reported historically. Previous MOE sampling

of undisturbed soils approximately 0.7 km southeast of Valleyview Public School, Station 340 of the MOE Sudbury 2000 Report for the City of Greater Sudbury (MOE 2001), indicated nickel and copper surface soil concentrations of 140 and 130 ppm, respectively. Historic MOE sampling in the Sudbury area was of undeveloped surface soils which may not be representative of the materials sampled on this property.

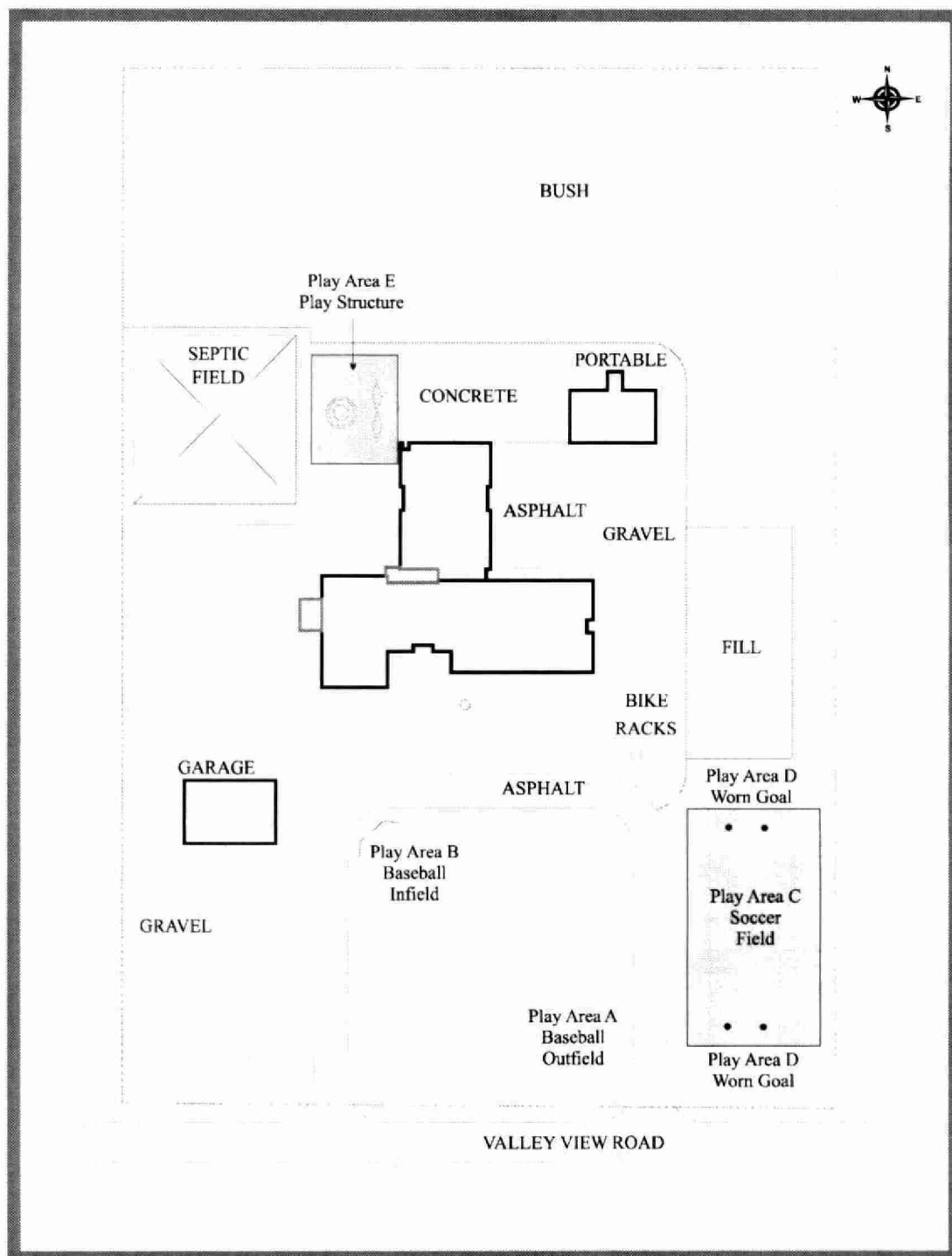


Figure B2.1.37: Valley View Public School Sampling Locations - 2001

2.1.38 Wanup Public School - Rainbow District School Board 4543 Highway 537, Sudbury

Wanup Public School was sampled on July 6, 2001. Figure B2.1.38 details the sampling locations at this property. Samples were taken from four areas on the school property. Area A corresponds to the grassed area of both soccer fields. Areas B and C correspond to the grassed baseball diamond outfield and soil baseball diamond infield, respectively. Due to the compacted nature of Area C, it was only possible to sample the surface soil (0 - 5 cm) layer. Area D corresponds to the sand samples that were taken from the sanded play area. Due to the constant mixing of sand and the homogeneous nature of the sanded areas, sand samples were collected with hand trowels to represent the 0-15 cm depth. All data were compared with the MOE Table F Ontario Soil Background Criteria and Table A Effects Based Soil Criteria (MOE 1997).

Metal concentrations were not elevated in the sand from the sand box. The sand present is not likely native to the school property and is believed to have been introduced when the sanded play area was constructed. Thus the sand was not expected to have elevated metal concentrations. Nickel (Ni) concentrations were elevated above the MOE Table F Ontario Soil Background Criteria for all other sites sampled on this property. Copper (Cu) was elevated above the MOE Table F Ontario Soil Background Criteria for one sample only. The highest nickel concentrations, 66 ppm, were found in the surface soil (0-5 cm) layer of the baseball diamond outfield. All other metals listed, as well as aluminum (Al), calcium (Ca), iron (Fe), magnesium (Mg), manganese (Mn), and strontium (Sr) which are not listed, were below the MOE Table F Ontario Soil Background Criteria. There were no exceedences of the MOE Table A Effects Based Soil Criteria for nickel at this property.

Table B2.1.38: Concentration of 13 Elements in Soil in µg/g Collected at Wanup Public School, 4543 Highway 537, Sudbury - 2001																
Map ID	Station	Sample Number	Soil Depth	Sb	As	Ba	Cd	Cr	Co	Cu	Pb	Mo	Ni	Se	V	Zn
Area A grass	5037002	14223	0 - 5	< 0.8	< 5	30	< 0.8	21	5	56	13	< 1.5	65	< 1	23	22
		14224	0 - 5	< 0.8	< 5	29	< 0.8	22	5	58	12	< 1.5	59	< 1	25	25
		14225	5 - 10	< 0.8	< 5	32	< 0.8	20	4	45	9	< 1.5	58	< 1	24	24
		14226	5 - 10	< 0.8	< 5	32	< 0.8	22	5	45	9	< 1.5	64	< 1	25	25
		14227	10 - 20	< 0.8	< 5	32	< 0.8	21	4	34	7	< 1.5	56	< 1	24	24
		14228	10 - 20	< 0.8	< 5	29	< 0.8	20	4	24	6	< 1.5	48	< 1	22	21
Area B grass	5037003	14229	0 - 5	< 0.8	< 5	35	< 0.8	25	5	51	13	< 1.5	66	< 1	28	23
		14230	0 - 5	< 0.8	< 5	36	< 0.8	24	5	53	12	< 1.5	66	< 1	28	24
		14231	5 - 10	< 0.8	< 5	36	< 0.8	24	4	41	9	< 1.5	53	< 1	29	25
		14232	5 - 10	< 0.8	< 5	33	< 0.8	23	4	38	8	< 1.5	50	< 1	28	25
		14233	10 - 20	< 0.8	< 5	38	< 0.8	24	4	32	7	< 1.5	48	< 1	28	25
		14234	10 - 20	< 0.8	< 5	34	< 0.8	25	4	25	6	< 1.5	44	< 1	28	24
Area C soil	5037004	14235	0 - 5	< 0.8	< 5	36	< 0.8	30	9	27	4	< 1.5	27	< 1	31	27
		14236	0 - 5	< 0.8	< 5	34	< 0.8	36	9	38	4	< 1.5	55	< 1	34	24
Area D sand	5037005	14237	0 - 15	< 0.8	< 5	23	< 0.8	33	7	19	3	< 1.5	21	< 1	33	24
Table F (results in bold)				1.0	14	190	1.0	67	19	56	55	2.5	43	1.4	91	150
Table A (results in bold and underlined)				13	20	750	12	750	40	225	200	5.0	150	10	200	600
< - less than the Method Detection Limit.																
Al, Ca, Fe, Mg, Mn, and Sr results can be found in Table 4.1.																

These nickel results are similar to those reported historically. Previous MOE sampling of undisturbed soils approximately 0.5 km south of Wanup Public School, Station 58 of the MOE

Sudbury 2000 Report for the City of Greater Sudbury (MOE 2001), indicated nickel surface soil concentrations from 31 to 130 ppm. Historic MOE sampling in the Sudbury area was of undeveloped surface soils which may not be representative of the materials sampled on this property.

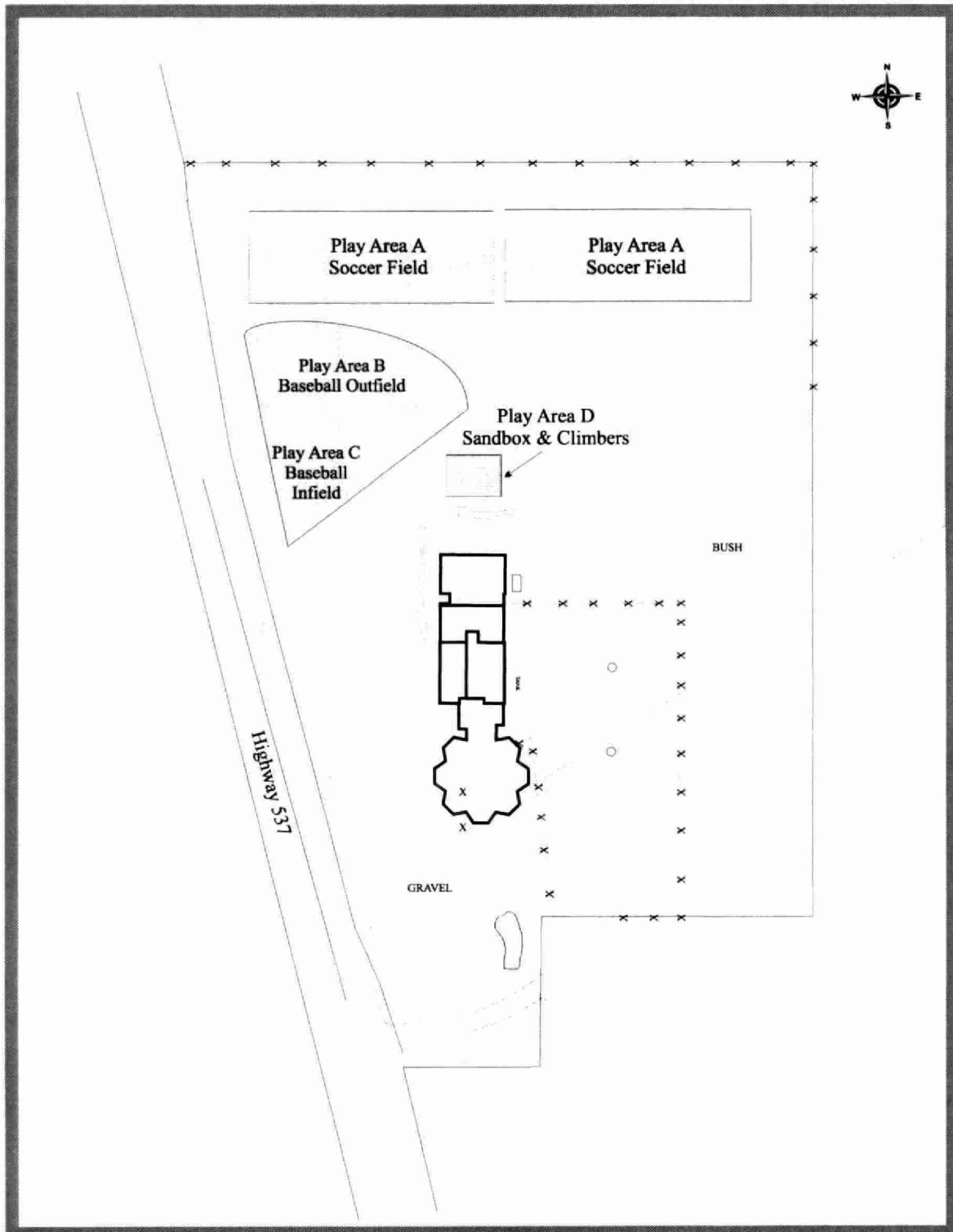


Figure B2.1.38: Wanup Public School Sampling Locations - 2001.

2.1.39 Wembley Public School - Rainbow District School Board 408 Wembley Drive, Sudbury

Wembley Public School was sampled on July 5, 2001. Figure B2.1.39 details the sampling locations at this property. Samples were taken from six areas on the school property. Areas A, B, and C correspond to the grassed area of the soccer field and the worn areas around the northeast and southwest soccer goal posts, respectively. Area D corresponds to the north baseball diamond infield. Due to the compacted nature of Areas A, B, C, and D, it was only possible to sample the surface soil (0 - 5 cm) layer. Areas E and F correspond to the sand samples collected from the sanded play areas on the northwest and southeast corners of the property, respectively. Due to the constant mixing of sand and the homogeneous nature of the sanded areas, sand samples were collected with hand trowels to represent the 0-15 cm depth. All data were compared with the MOE Table F Ontario Soil Background Criteria and Table A Effects Based Soil Criteria (MOE 1997).

Metal concentrations were not elevated in the sand beneath the play structure. The sand present is not likely native to the school property and is believed to have been introduced when the sanded play area was constructed. Thus the sand was not expected to have elevated metal concentrations. Nickel (Ni) concentrations were elevated above the MOE Table F Ontario Soil Background Criteria for all other samples collected from this property. Aside from the northeast soccer goal post, copper (Cu) concentrations were also elevated above the MOE Table F Ontario Soil Background Criteria in the surface soil of all other samples from this property. The highest nickel and copper concentrations, 180 and 160 ppm, respectively, were found in the surface soil (0-5 cm) layer of the grassed soccer field. All other metals listed, as well as aluminum (Al), calcium (Ca), iron (Fe), magnesium (Mg), manganese (Mn), and strontium (Sr) which are not listed, were below the MOE Table F Ontario Soil Background Criteria. There was one exceedence of the MOE Table A Effects Based Soil Criteria for nickel at this property.

Table B2.1.39: Concentration of 13 Elements in Soil in µg/g Collected at Wembley Public School, 408 Wembley Drive, Sudbury - 2001																
Map ID	Station	Sample Number	Soil Depth	Sb	As	Ba	Cd	Cr	Co	Cu	Pb	Mo	Ni	Se	V	Zn
Area A grass	5037077	14159	0 - 5	< 0.8	< 5	37	< 0.8	31	16	160	16	< 1.5	180	1	26	37
		14160	0 - 5	< 0.8	< 5	33	< 0.8	29	7	81	11	< 1.5	88	1	27	30
Area B soil	5037078	14161	0 - 5	< 0.8	< 5	30	< 0.8	30	5	41	8	< 1.5	60	< 1	29	22
Area C soil	5037079	14162	0 - 5	< 0.8	< 5	34	< 0.8	29	8	120	16	< 1.5	130	1	27	40
Area D soil	5037080	14163	0 - 5	< 0.8	< 5	27	< 0.8	25	9	66	7	< 1.5	63	< 1	27	20
Area E sand	5037081	14164	0 - 15	< 0.8	< 5	19	< 0.8	28	7	24	3	< 1.5	29	< 1	29	18
Area F sand	5037082	14165	0 - 15	< 0.8	< 5	21	< 0.8	30	7	35	4	< 1.5	43	< 1	33	23
Table F (results in bold)				1.0	14	190	1.0	67	19	56	55	2.5	43	1.4	91	150
Table A (results in bold and underlined)				13	20	750	12	750	40	225	200	5.0	150	10	200	600
< - less than the Method Detection Limit.																
Al, Ca, Fe, Mg, Mn, and Sr results can be found in Table 4.1.																

These nickel and copper results are lower than those reported historically. Previous MOE sampling of undisturbed soils approximately 1 km southeast of Wembley Public School, Station 74 of the MOE Sudbury 2000 Report for the City of Greater Sudbury (MOE 2001), indicated nickel and copper surface soil concentrations as high as 790 and 740 ppm, respectively. Historic MOE

sampling in the Sudbury area was of undeveloped surface soils which may not be representative of the materials sampled on this property.

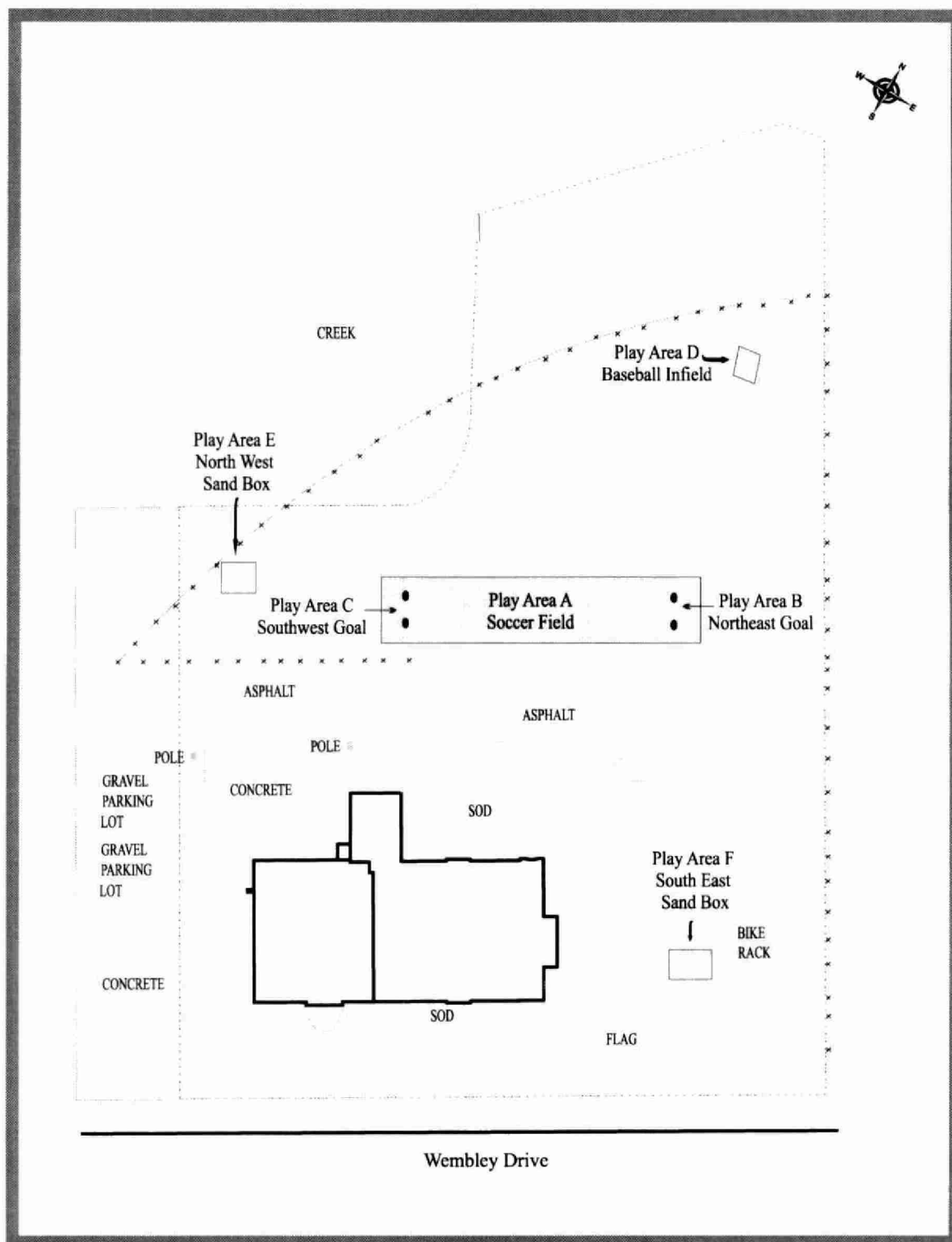


Figure B2.1.39: Wembley Public School Sampling Locations - 2001

2.1.40 Westmount Avenue Public School - Rainbow District School Board

511 Westmount Avenue, Sudbury

Westmount Avenue Public School was sampled on July 17, 2001. Figure B2.1.40 details the sampling locations at this property. Samples were taken from seven areas on the school property. Area A corresponds to the grassed play area in the southeast corner of the school property. Areas B, E, and G correspond to sand samples collected from the sanded play area on the south side of the property, from beneath the play structures in the northwest corner of the school property, and from beneath the swing set on the north end of the property, respectively. Due to the constant mixing of sand and the homogeneous nature of the sanded areas, sand samples were collected with hand trowels to represent the 0-15 cm depth. Areas C and D correspond to the gravel baseball diamond infield and grassed baseball diamond outfield, respectively. Area F corresponds to the grassed area of the soccer field. Due to the compacted nature of Areas C, D, and F, it was only possible to sample the surface soil (0 - 5 cm) layer of the baseball diamond and the 10 - 20 cm depth for one replicate of the soccer field. All data were compared with the MOE Table F Ontario Soil Background Criteria and Table A Effects Based Soil Criteria (MOE 1997).

Metal concentrations were not elevated in the sand beneath the play structure. The sand present is not likely native to the school property and is believed to have been introduced when the sanded play area was constructed. Thus the sand was not expected to have elevated metal concentrations. Nickel (Ni) and copper (Cu) concentrations were elevated above the MOE Table F Ontario Soil Background Criteria at selected sites from this property. The highest nickel and copper concentrations, 130 and 110 ppm, respectively, were found in the surface soil (0-5 cm) layer of the grassed baseball diamond outfield. All other metals listed, as well as aluminum (Al), calcium (Ca), iron (Fe), magnesium (Mg), manganese (Mn), and strontium (Sr) which are not listed, were below the MOE Table F Ontario Soil Background Criteria. There were no exceedences of the MOE Table A Effects Based Soil Criteria at this property.

These nickel and copper results are higher than those reported historically. Previous MOE sampling of undisturbed soils approximately 0.5 km southeast of Westmount Avenue Public School, Station 361 of the MOE Sudbury 2000 Report for the City of Greater Sudbury (MOE 2001), indicated nickel and copper surface soil concentrations of 66 and 52 ppm, respectively. Historic MOE sampling in the Sudbury area was of undeveloped surface soils which may not be representative of the materials sampled on this property.

Table B2.1.40: Concentration of 13 Elements in Soil in µg/g Collected at Westmount Avenue Public School, 511 Westmount Avenue, Sudbury - 2001																
Map ID	Station	Sample Number	Soil Depth	Sb	As	Ba	Cd	Cr	Co	Cu	Pb	Mo	Ni	Se	V	Zn
Area A grass	5037174	14311	0 - 5	< 0.8	6	32	< 0.8	29	7	70	15	< 1.5	81	< 1	29	25
		14312	0 - 5	< 0.8	7	30	< 0.8	27	6	63	13	< 1.5	66	< 1	28	25
		14313	5 - 10	< 0.8	6	25	< 0.8	27	6	36	7	< 1.5	42	< 1	30	21
		14314	5 - 10	< 0.8	6	30	< 0.8	27	7	41	8	< 1.5	54	< 1	29	22
		14315	10 - 20	< 0.8	6	30	< 0.8	25	5	25	5	< 1.5	38	< 1	30	16
		14316	10 - 20	< 0.8	9	43	< 0.8	30	7	40	8	< 1.5	58	< 1	34	22
Area B sand	5037175	14317	0 - 15	< 0.8	< 5	19	< 0.8	28	7	15	3	< 1.5	21	< 1	34	14
Area C gravel	5037176	14318	0 - 5	0.8	6	38	< 0.8	29	9	77	13	< 1.5	95	< 1	28	27
		14319	0 - 5	< 0.8	7	33	< 0.8	28	10	84	13	< 1.5	100	< 1	28	29
Area D grass	5037177	14320	0 - 5	< 0.8	< 5	34	< 0.8	26	6	53	12	< 1.5	66	< 1	25	28
		14321	0 - 5	< 0.8	5	48	< 0.8	36	9	110	23	< 1.5	130	1	30	38
Area E sand	5037178	14322	0 - 15	< 0.8	5	28	< 0.8	30	9	35	4	< 1.5	34	1	36	23
		14324	0 - 15	< 0.8	6	28	< 0.8	31	9	34	4	< 1.5	31	< 1	35	25
Area F grass	5037179	14325	0 - 5	< 0.8	5	39	< 0.8	33	7	71	16	< 1.5	86	< 1	29	30
		14326	0 - 5	< 0.8	< 5	33	< 0.8	26	6	54	11	< 1.5	68	< 1	26	25
		14327	5 - 10	< 0.8	< 5	36	< 0.8	26	5	30	7	< 1.5	42	< 1	27	21
		14328	5 - 10	< 0.8	< 5	33	< 0.8	24	5	39	8	< 1.5	50	< 1	25	21
		14329	10 - 20	< 0.8	< 5	36	< 0.8	26	5	33	9	< 1.5	49	< 1	25	20
Area G sand	5037180	14331	0 - 15	< 0.8	6	29	< 0.8	28	9	42	5	< 1.5	37	< 1	32	22
Table F (results in bold)				1.0	14	190	1.0	67	19	56	55	2.5	43	1.4	91	150
Table A (results in bold and underlined)				13	20	750	12	750	40	225	200	5.0	150	10	200	600
< - less than the Method Detection Limit.																
Al, Ca, Fe, Mg, Mn, and Sr results can be found in Table 4.1.																

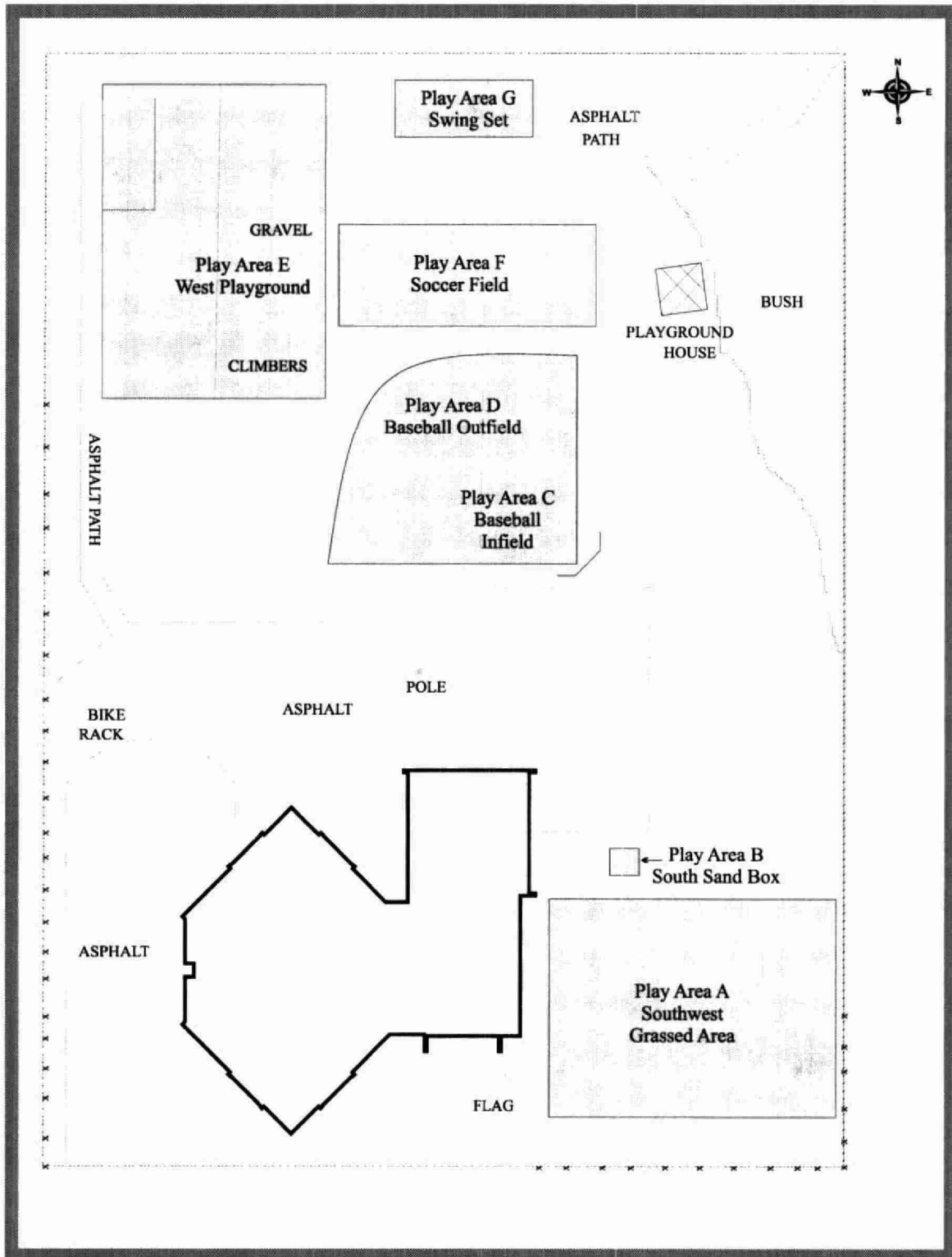


Figure B2.1.40: Westmount Avenue Public School Sampling Locations - 2001.

2.2 Sudbury Catholic District School Board

As of June 2001, the Sudbury Catholic District School Board provided the MOE with a list of 26 school properties. MOE representatives were able to collect samples from all but one property during the summer of 2001. St. Albert Adult Centre was paved; however, the St. Albert Child Care Centre at the same location did have one grassed child play area which was sampled and is discussed in the daycare section of this report. For each school there is a section below describing the results, a table with a subset of the results, and a map showing the sampling locations. The maps were provided by the Sudbury Catholic District School Board and the locations of the sampling sites shown are only approximate. The schools are listed alphabetically. Complete results for each school are listed in Table 4.1 along with the results from the other school boards.

Table B2.2: Number of Sudbury Catholic District Schools where at least one sample exceeded MOE soil criteria.

Number of Schools	Nickel Exceedences		Copper Exceedences		Cobalt Exceedences		Arsenic Exceedences		Lead Exceedences	
	Table F	Table A	Table F	Table A	Table F	Table A	Table F	Table A	Table F	Table A
26	23	5	4	2	4	0	0	0	1	0

In order to fit all of the results data onto one table the standard chemical abbreviations had to be used. To interpret the tables properly, the chart below can be used to translate the abbreviations.

Chemical Symbols Used in Results Tables				
Al - aluminum	Sb - antimony	As - arsenic	Ba - barium	Be - beryllium
Cd - cadmium	Ca - calcium	Cr - chromium	Co - cobalt	Cu - copper
Fe - iron	Pb - lead	Mg - magnesium	Mn - manganese	Mo - molybdenum
Ni - nickel	Se - selenium	Sr - strontium	V - vanadium	Zn - zinc

Please note as of 2004, the Sudbury Catholic District School Board has closed St. Anthony (2.2.9) and St. Kevin (Bishop Alexander Carter Secondary School) (2.2.19) and has renamed St. Anne (2.2.8) Bishop Alexander Carter Secondary School. One school has also been purchased from Le Conseil Scolaire Catholique du Nouvel-Ontario, St. Michel (2.2.25) and has been renamed St. Anne.

2.2.1 Corpus Christi - Sudbury Catholic District School Board 811 Robinson Drive, Sudbury

Corpus Christi was sampled on July 4, 2001. Figure B2.2.1 details the sampling locations at this property. Samples were taken from two areas on the school property. Area A corresponds to the baseball diamond infield and Area B correspond to the baseball diamond outfield. Due to the compacted nature of Areas A, and B it was only possible to sample the surface soil (0 - 5 cm). All data were compared with the MOE Table F Ontario Soil Background Criteria and Table A Effects Based Soil Criteria (MOE 1997).

Nickel concentrations were elevated above the MOE Table F Ontario Soil Background Criteria in the surface soil in all of the samples collected from this property. The highest nickel concentration, 74 ppm, occurred in the surface soil of the baseball diamond infield. All other metals listed, as well as aluminum (Al), calcium (Ca), iron (Fe), magnesium (Mg), manganese (Mn), and strontium (Sr) which are not listed, were below the MOE Table F Ontario Soil Background Criteria. There were no exceedences of the MOE Table A Effects Based Soil Criteria at this property.

These soil results are lower than those reported historically. Previous MOE sampling of undisturbed soils approximately 1 km north and 1 km southwest of Corpus Christi, Stations 73 and 368, respectively, of the MOE Sudbury 2000 Report for the City of Greater Sudbury (MOE 2001), indicated nickel and copper surface soil concentrations as high as 490 and 400 ppm, respectively. Historic MOE sampling in the Sudbury area was of undeveloped surface soils which may not be representative of the materials sampled on this property.

Table B2.2.1: Concentration of 13 Elements in Soil in µg/g Collected at Corpus Christi, 811 Robinson Drive, Sudbury - 2001																
Map ID	Station	Sample Number	Soil Depth	Sb	As	Ba	Cd	Cr	Co	Cu	Pb	Mo	Ni	Se	V	Zn
Area A gravel	5037039	14086	0 - 5	< 0.8	< 5	40	< 0.8	34	7	50	10	< 1.5	74	< 1	31	34
		14087	0 - 5	< 0.8	< 5	42	< 0.8	35	7	48	11	< 1.5	71	< 1	32	37
Area B gravel	5037040	14088	0 - 5	< 0.8	< 5	43	< 0.8	36	7	49	11	< 1.5	71	< 1	34	40
		14089	0 - 5	< 0.8	< 5	41	< 0.8	35	7	46	10	< 1.5	67	< 1	31	32
Table F(results in bold)				1.0	14	190	1.0	67	19	56	55	2.5	43	1.4	91	150
Table A(results in bold and underlined)				13	20	750	12	750	40	225	200	5.0	150	10	200	600
< - less than the Method Detection Limit.																
Al, Ca, Fe, Mg, Mn, and Sr results can be found in Table 4.1.																

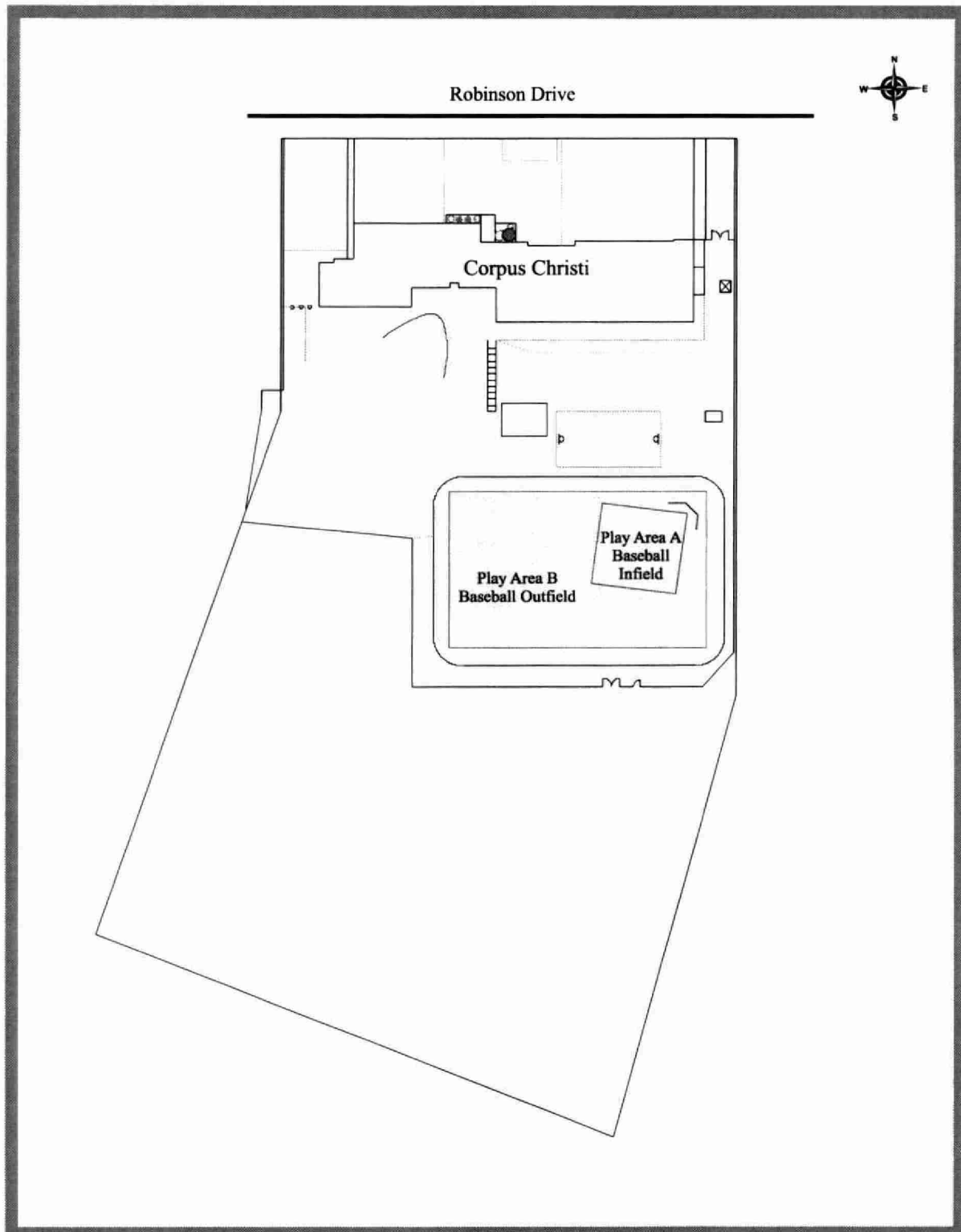


Figure B2.2.1: Corpus Christi Sampling Locations - 2001.

2.2.2 Immaculate Conception - Sudbury Catholic District School Board 1748 Pierre Street, Val Caron

Immaculate Conception was sampled on July 23, 2001. Figure B2.2.2 details the sampling locations at this property. Samples were taken from one area on the school property. Area A corresponds to the gravel playground behind the school building. Due to the constant mixing of the gravel and the homogenous nature of the gravel area, samples were collected with hand trowels to represent the 0-5 cm layer. There were not any other play areas present on this property to sample. All data were compared with the MOE Table F Ontario Soil Background Criteria and Table A Effects Based Soil Criteria (MOE 1997).

Nickel (Ni) and copper (Cu) concentrations were elevated above the MOE Table F Ontario Soil Background Criteria in both gravel samples. The highest nickel and copper concentrations found were 79 and 84 ppm, respectively. All other metals listed, as well as aluminum (Al), calcium (Ca), iron (Fe), magnesium (Mg), manganese (Mn), and strontium (Sr) which are not listed, were below the MOE Table F Ontario Soil Background Criteria. There were no exceedences of the MOE Table A Effects Based Soil Criteria at this property.

These results are lower than those reported historically. Previous MOE sampling of undisturbed soils approximately 1 km northwest and 2 km south of Immaculate Conception School, Stations 15 and 340, respectively, of the MOE Sudbury 2000 Report for the City of Greater Sudbury (MOE 2001), indicated nickel and copper surface soil concentrations as high as 140 and 130 ppm, respectively. Historic MOE sampling in the Sudbury area was of undeveloped surface soils which may not be representative of the materials sampled on this property.

Table B2.2.2: Concentration of 13 Elements in Soil in µg/g Collected at Immaculate Conception, 1748 Pierre Street, Val Caron - 2001																
Map ID	Station	Sample Number	Soil Depth	Sb	As	Ba	Cd	Cr	Co	Cu	Pb	Mo	Ni	Se	V	Zn
Area A gravel	5037293	14786	0 - 5	< 0.8	6	38	< 0.8	39	9	84	16	1.6	79	1	38	53
		14787	0 - 5	< 0.8	< 5	34	< 0.8	40	9	70	12	< 1.5	67	< 1	39	43
Table F (results in bold)				1.0	14	190	1.0	67	19	56	55	2.5	43	1.4	91	150
Table A (results in bold and underlined)				13	20	750	12	750	40	225	200	5.0	150	10	200	600
< - less than the Method Detection Limit.																
Al, Ca, Fe, Mg, Mn, and Sr results can be found in Table 4.1.																

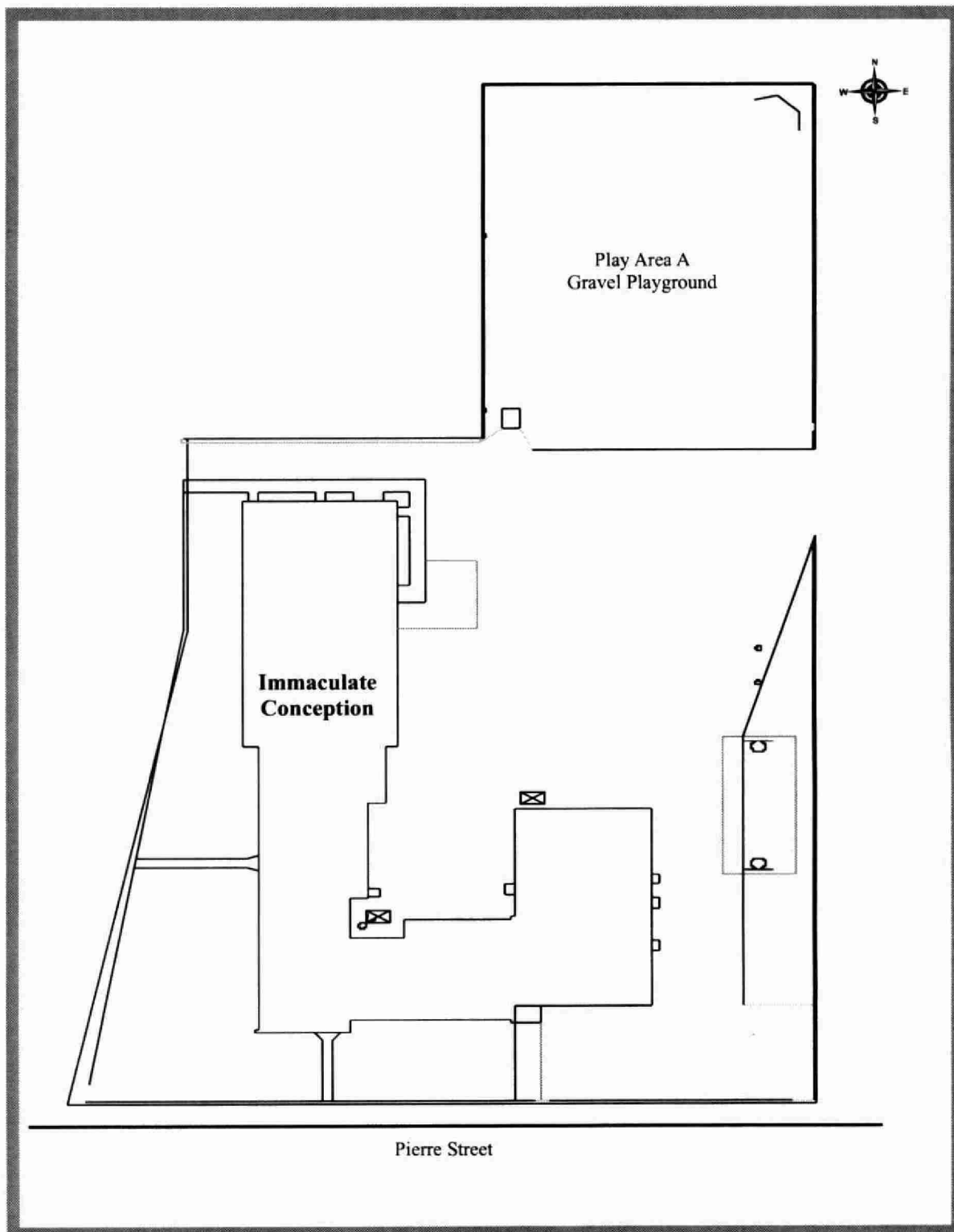


Figure B2.2.2: Immaculate Conception Sampling Locations - 2001.

2.2.3 Marymount Academy - Sudbury Catholic District School Board 165 D'Youville Street, Sudbury

Marymount Academy was sampled on July 16, 2001. Figure B2.2.3 details the sampling locations at this property. Samples were taken from one area on the school property. Area A corresponds to the grassed area surrounding the picnic tables on the front lawn of the school. Due to the compacted nature of this grassed area, it was only possible to sample the 5 - 10 cm depth for one replicate. There were not any other play areas present on this property to be sampled. All data were compared with the MOE Table F Ontario Soil Background Criteria and Table A Effects Based Soil Criteria (MOE 1997).

Nickel (Ni), copper (Cu), lead (Pb), cadmium (Cd), and selenium (Se) concentrations were elevated above the MOE Table F Ontario Soil Background Criteria in the surface soil of the grassed play area. Nickel and copper concentrations were also elevated above the MOE Table A Effects Based Soil Criteria in the surface soil samples. The highest nickel, copper, lead, cadmium, and selenium concentrations found in the surface soil were 660, 510, 70, 1.3, and 4 ppm, respectively. All other metals listed, as well as aluminum (Al), calcium (Ca), iron (Fe), magnesium (Mg), manganese (Mn), and strontium (Sr) which are not listed, were below the MOE Table F Ontario Soil Background Criteria.

The nickel, copper, and selenium soil results are similar to those reported historically, whereas the lead concentrations are higher than previously reported. Previous MOE sampling of undisturbed soils approximately 1 km northwest, and 1.75 km southwest of Marymount Academy, Stations 84, and 378, respectively, of the MOE Sudbury 2000 Report for the City of Greater Sudbury (MOE 2001), indicated nickel and copper surface soil concentration ranges of 230 to 490, and 180 to 520 ppm, respectively. The highest surface soil selenium and lead concentrations previously reported for Station 84 were 3.5 ppm and 35 ppm, respectively. The highest surface soil cadmium concentration previously reported for Station 378 was 0.35 ppm. Historic MOE sampling in the Sudbury area was of undeveloped surface soils which may not be representative of the materials sampled on this property.

Table B2.2.3: Concentration of 13 Elements in Soil in µg/g Collected at Marymount Academy, 165 D'Youville Street, Sudbury - 2001																
Map ID	Station	Sample Number	Soil Depth	Sb	As	Ba	Cd	Cr	Co	Cu	Pb	Mo	Ni	Se	V	Zn
Area A grass	5037134	14246	0 - 5	< 0.8	14	53	1.3	26	22	<u>500</u>	70	< 1.5	<u>510</u>	3	28	50
		14247	0 - 5	< 0.8	14	51	1.3	26	28	<u>510</u>	65	< 1.5	<u>660</u>	4	28	52
		14248	5 - 10	< 0.8	10	31	< 0.8	18	8	150	30	< 1.5	<u>160</u>	< 1	23	37
Table F (results in bold)				1.0	14	190	1.0	67	19	56	55	2.5	43	1.4	91	150
Table A (results in bold and underlined)				13	20	750	12	750	40	225	200	5.0	150	10	200	600
< - less than the Method Detection Limit.																
Al, Ca, Fe, Mg, Mn, and Sr results can be found in Table 4.1.																

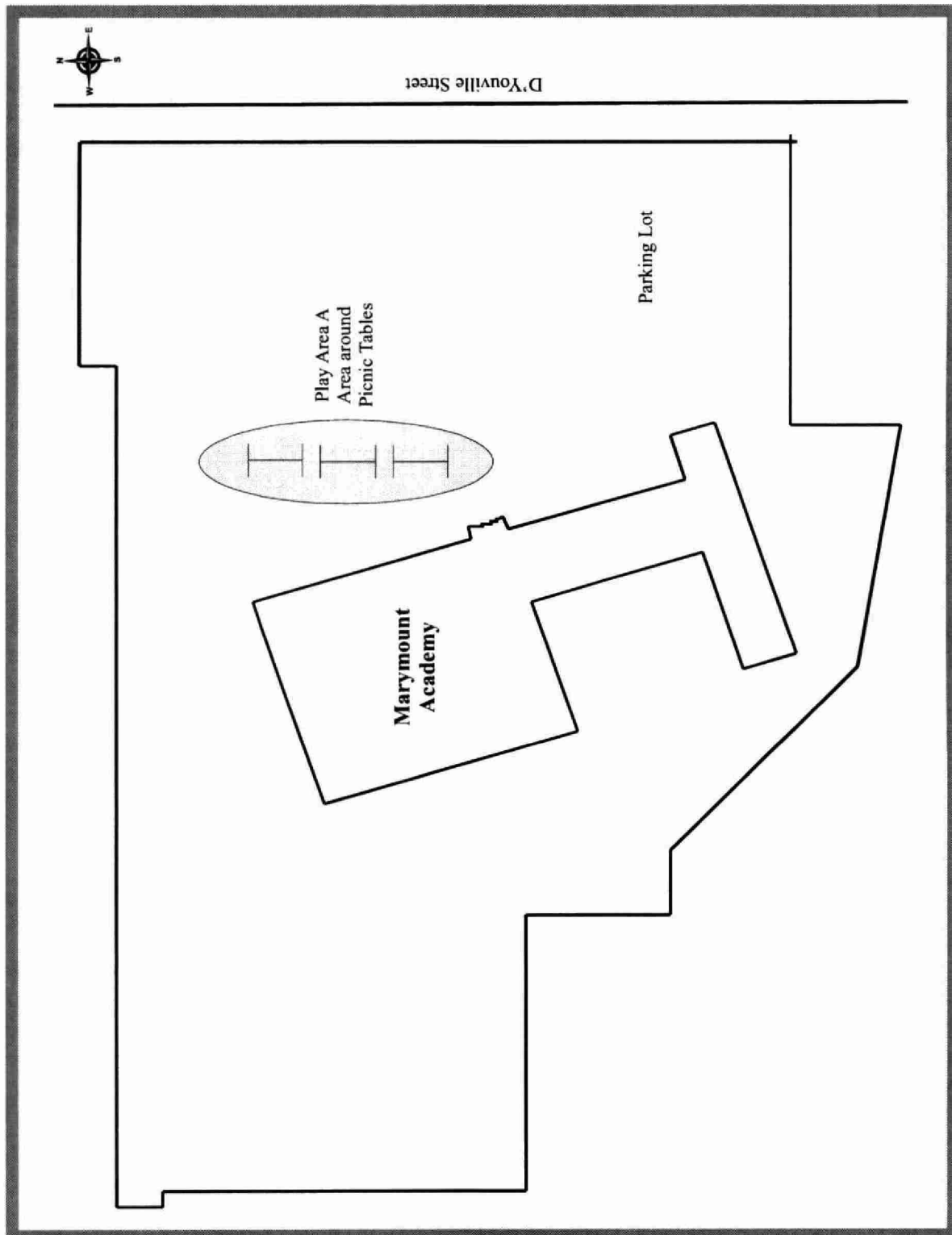


Figure B2.2.3: Marymount Academy Sampling Locations - 2001.

2.2.4 Our Lady of Fatima - Sudbury Catholic District School Board 1755 R.R. 55, Naughton

Our Lady of Fatima was sampled on July 21, 2001. Figure B2.2.4 details the sampling locations at this property. Samples were taken from one area on the school property. Area A corresponds to the grassed soccer field on the south side of the property. There were not any other play areas on this property to sample. All data were compared with the MOE Table F Ontario Soil Background Criteria and Table A Effects Based Soil Criteria (MOE 1997).

Nickel concentrations were elevated above the MOE Table F Ontario Soil Background Criteria in the surface soil (0-5 cm) and the 5-10 cm depth of the grassed soccer field. The nickel concentrations were higher in the surface soil and decreased with increasing depth. All other metals listed, as well as aluminum (Al), calcium (Ca), iron (Fe), magnesium (Mg), manganese (Mn), and strontium (Sr) which are not listed, were below the MOE Table F Ontario Soil Background Criteria. There were no exceedences of the MOE Table A Effects Based Soil Criteria at this property.

These soil results are lower than those reported historically. Previous MOE sampling of undisturbed soils approximately 0.7 km northeast and 2.5 km northeast of Our Lady of Fatima, Stations 403 and 379, respectively, of the MOE Sudbury 2000 Report for the City of Greater Sudbury (MOE 2001), indicated nickel and copper surface soil concentrations as high as 230 and 250 ppm, respectively. Historic MOE sampling in the Sudbury area was of undeveloped surface soils which may not be representative of the materials sampled on this property.

Table B2.2.4: Concentration of 13 Elements in Soil in µg/g Collected at Our Lady of Fatima, 1755 R.R. 55, Naughton - 2001																	
Map ID	Station	Sample Number	Soil Depth	Sb	As	Ba	Cd	Cr	Co	Cu	Pb	Mo	Ni	Se	V	Zn	
Area A grass	5037262	14738	0 - 5	< 0.8	< 5	29	< 0.8	23	5	45	14	< 1.5	71	< 1	23	25	
		14739	0 - 5	< 0.8	< 5	29	< 0.8	23	5	44	12	< 1.5	68	< 1	23	25	
		14740	5 - 10	< 0.8	6	29	< 0.8	22	5	35	8	< 1.5	55	< 1	23	27	
		14741	5 - 10	< 0.8	< 5	27	< 0.8	22	4	37	8	< 1.5	50	< 1	21	25	
		14742	10 - 20	< 0.8	< 5	28	< 0.8	21	4	21	5	< 1.5	36	< 1	21	22	
		14743	10 - 20	< 0.8	< 5	29	< 0.8	20	4	18	5	< 1.5	33	< 1	21	23	
Table F (results in bold)				1.0	14	190	1.0	67	19	56	55	2.5	43	1.4	91	150	
Table A (results in bold and underlined)				13	20	750	12	750	40	225	200	5.0	150	10	200	600	
< - less than the Method Detection Limit.																	
Al, Ca, Fe, Mg, Mn, and Sr results can be found in Table 4.1.																	

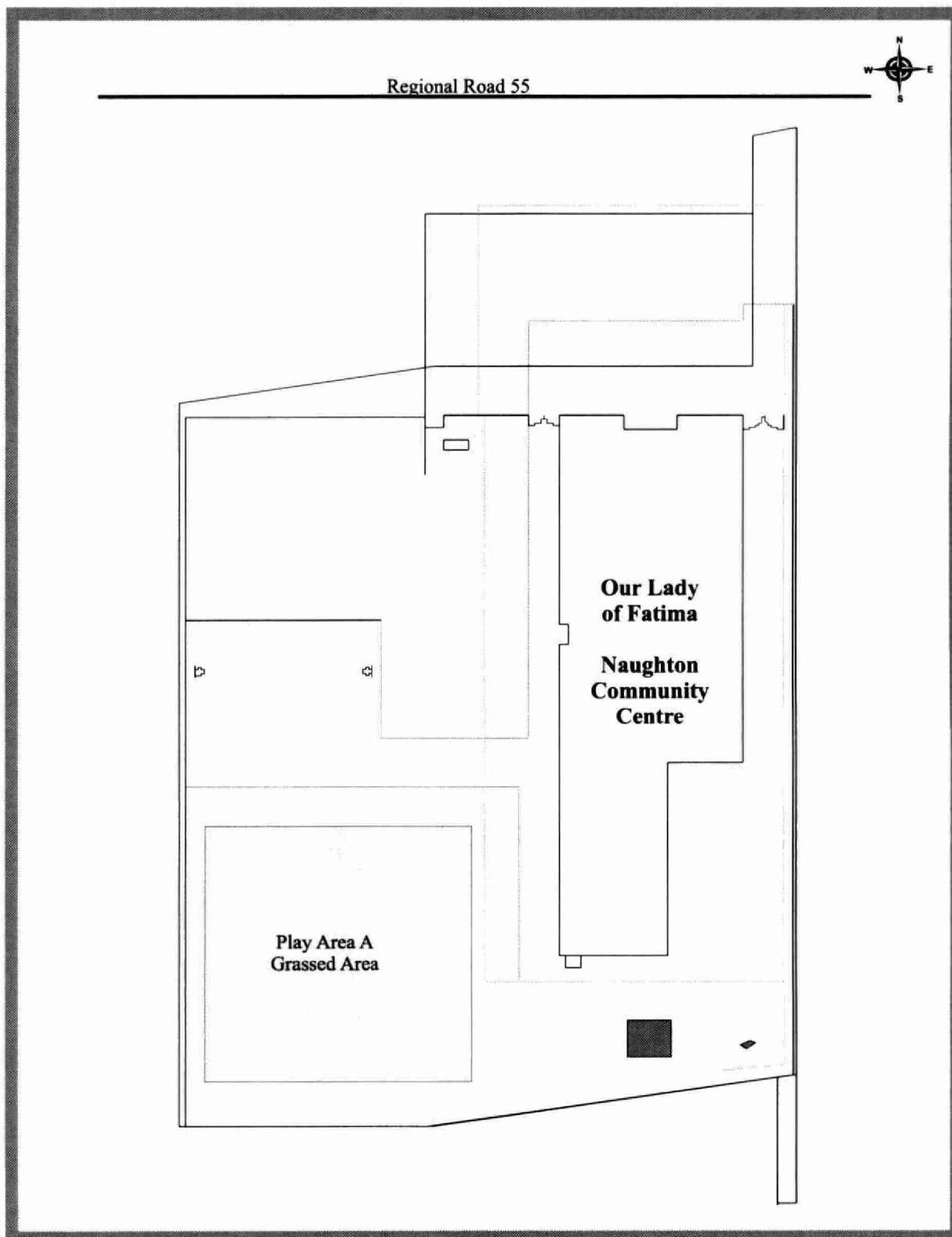


Figure B2.2.4: Our Lady of Fatima Sampling Locations - 2001.

2.2.5 Pius XII - Sudbury Catholic District School Board 44 3rd Avenue, Sudbury

Pius XII was sampled on July 17, 2001. Figure B2.2.5 details the sampling locations at this property. Samples were taken from one area on the school property. Area A corresponds to the gravel playground on the south side of the property. Due to the constant mixing of gravel and the homogenous nature of the gravel area, samples were collected with hand trowels to represent the 0-5 cm depth. There were not any other play areas to sample on this property. All data were compared with the MOE Table F Ontario Soil Background Criteria and Table A Effects Based Soil Criteria (MOE 1997).

Nickel concentrations were slightly elevated above the MOE Table F Ontario Soil Background Criteria in both the gravel playground samples. All other metals listed, as well as aluminum (Al), calcium (Ca), iron (Fe), magnesium (Mg), manganese (Mn), and strontium (Sr) which are not listed, were below the MOE Table F Ontario Soil Background Criteria. There were no exceedences of the MOE Table A Effects Based Soil Criteria at this property.

These results are much lower than those reported historically. Previous MOE sampling of undisturbed soils approximately 0.7 km west, and 1.5 km southwest of Pius XII, Stations 77, and 78, respectively, of the MOE Sudbury 2000 Report for the City of Greater Sudbury (MOE 2001), indicated nickel and copper surface soil concentrations as high as 360 and 350 ppm, respectively. However, nickel and copper concentrations found at historical Station 361, 1.5 km north of Pius XII, are similar to those found at Pius XII. The highest nickel and copper concentrations reported were 66 and 52 ppm, respectively. Historic MOE sampling in the Sudbury area was of undeveloped surface soils which may not be representative of the materials sampled on this property.

Table B2.2.5: Concentration of 13 Elements in Soil in µg/g Collected at Pius XII, 44 3rd Ave, Sudbury - 2001																
Map ID	Station	Sample Number	Soil Depth	Sb	As	Ba	Cd	Cr	Co	Cu	Pb	Mo	Ni	Se	V	Zn
Area A gravel	5037148	14297	0 - 5	< 0.8	< 5	35	< 0.8	32	11	52	8	< 1.5	59	< 1	30	28
		14298	0 - 5	< 0.8	< 5	33	< 0.8	33	9	51	7	< 1.5	53	< 1	31	27
Table F (results in bold)				1.0	14	190	1.0	67	19	56	55	2.5	43	1.4	91	150
Table A (results in bold and underlined)				13	20	750	12	750	40	225	200	5.0	150	10	200	600
< - less than the Method Detection Limit.																
Al, Ca, Fe, Mg, Mn, and Sr results can be found in Table 4.1.																

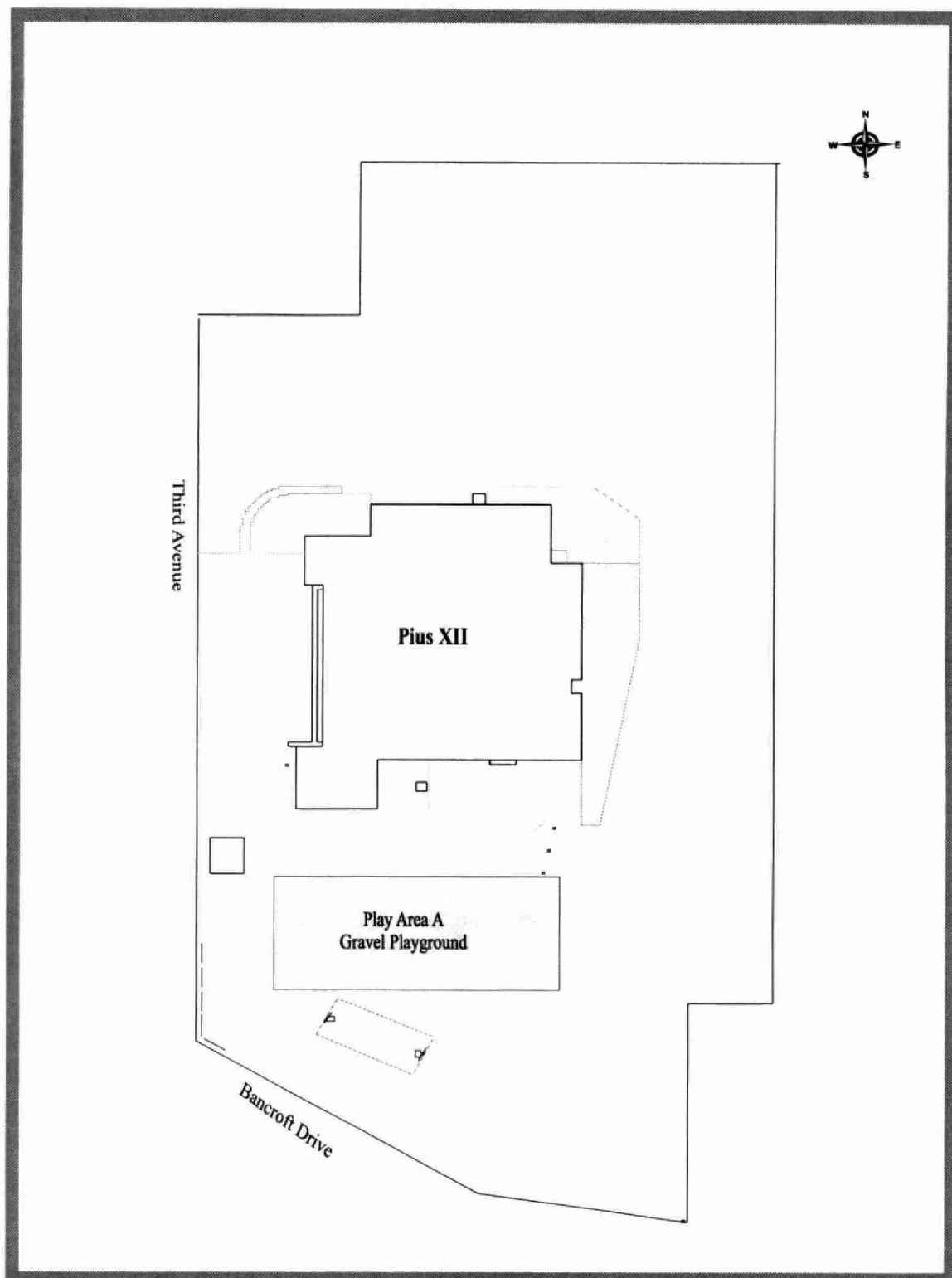


Figure B2.2.5: Pius XII Sampling Locations - 2001.

2.2.6 Sacred Heart - Sudbury Catholic District School Board 1169 Dollard Avenue, Sudbury

Sacred Heart was sampled on July 18, 2001 and has since been sold. Figure B2.2.6 details the sampling locations at this property. Samples were taken from one area on the school property. Area A corresponds to the gravel playground on the west side of the school building. Due to the constant mixing of gravel and the homogenous nature of the gravel area, samples were collected with hand trowels to represent the 0-5 cm depth. There were not any other play areas to sample on this property. All data were compared with the MOE Table F Ontario Soil Background Criteria and Table A Effects Based Soil Criteria (MOE 1997).

Nickel and copper concentrations were elevated above the MOE Table F Ontario Soil Background Criteria in both of the gravel samples. The highest nickel and copper concentrations found were 90 and 72 ppm, respectively. All other metals listed, as well as aluminum (Al), calcium (Ca), iron (Fe), magnesium (Mg), manganese (Mn), and strontium (Sr) which are not listed, were below the MOE Table F Ontario Soil Background Criteria. There were no exceedences of the MOE Table A Effects Based Soil Criteria at this property.

These results are lower than those reported historically. Previous MOE sampling of undisturbed soils approximately 1 km northeast and 1 km northwest of formerly Sacred Heart School, Stations 42 and 43, respectively, of the MOE Sudbury 2000 Report for the City of Greater Sudbury (MOE 2001), indicated nickel and copper surface soil concentrations as high as 190 and 210 ppm, respectively. Historic MOE sampling in the Sudbury area was of undeveloped surface soils which may not be representative of the materials sampled on this property.

Table B2.2.6: Concentration of 13 Elements in Soil in µg/g Collected at Sacred Heart (formerly), 1169 Dollard Avenue, Sudbury - 2001																
Map ID	Station	Sample Number	Soil Depth	Sb	As	Ba	Cd	Cr	Co	Cu	Pb	Mo	Ni	Se	V	Zn
Area A gravel	5037219	14365	0 - 5	< 0.8	< 5	23	< 0.8	27	12	62	9	< 1.5	76	< 1	29	44
		14366	0 - 5	< 0.8	< 5	29	< 0.8	26	11	72	16	< 1.5	90	< 1	28	52
Table F (results in bold)				1.0	14	190	1.0	67	19	56	55	2.5	43	1.4	91	150
Table A (results in bold and underlined)				13	20	750	12	750	40	225	200	5.0	150	10	200	600
< - less than the Method Detection Limit.																
Al, Ca, Fe, Mg, Mn, and Sr results can be found in Table 4.1.																

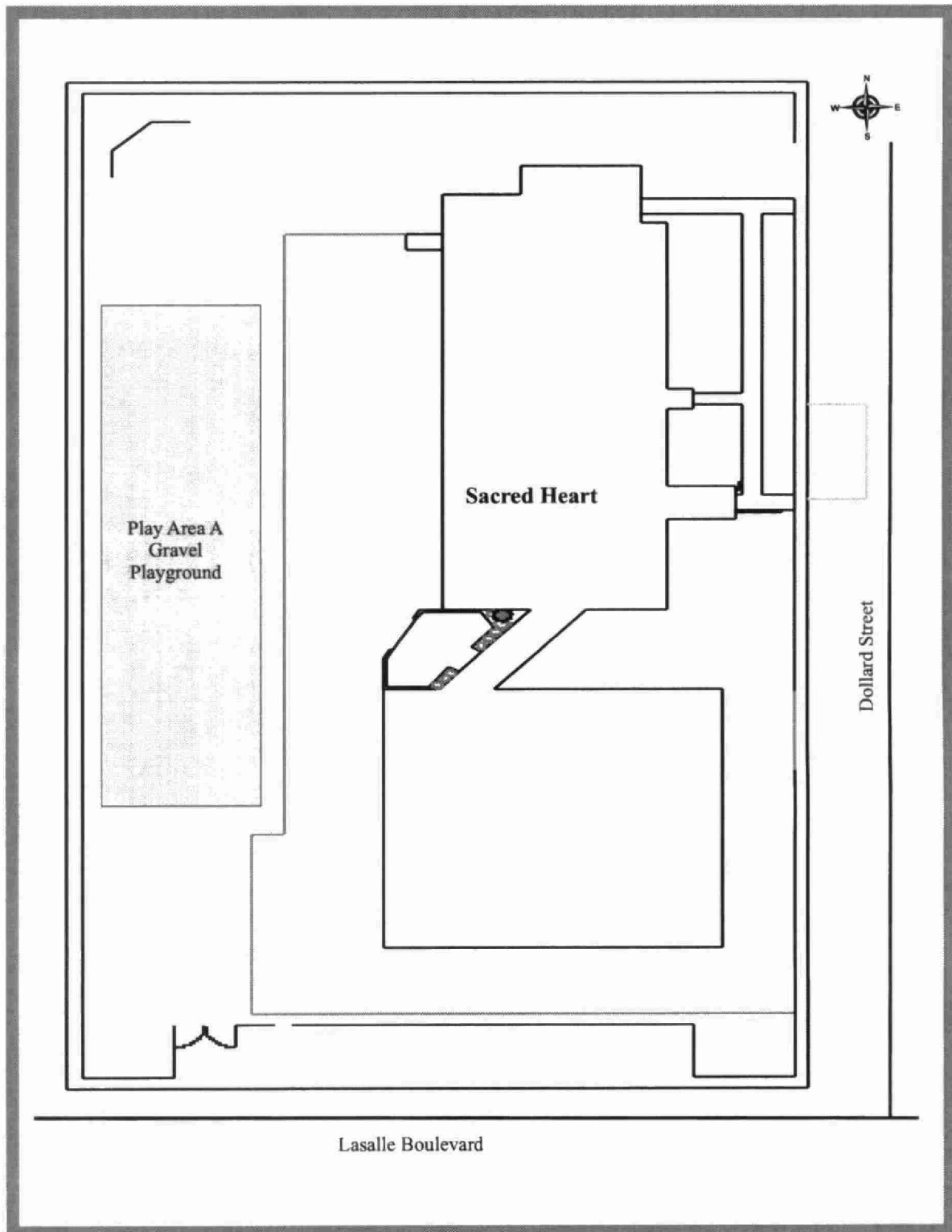


Figure B2.2.6: Sacred Heart (formerly) Sampling Locations - 2001.

2.2.7 St. Andrew - Sudbury Catholic District School Board 1305 Holland Road, Sudbury

St. Andrew School was sampled on July 17, 2001. Figure B2.2.7 details the sampling locations at this property. Samples were taken from three areas on the school property. Area A corresponds to the gravel playground at the south side of the property. Area B corresponds to the sand samples taken from the sand boxes behind the school building. Due to the constant mixing of the sand and the homogenous nature of the sanded areas, sand samples were collected with hand trowels to represent the 0-15 cm depth. Hand trowels were also used to collect gravel samples to represent the 0-5 cm depth. Area C corresponds to the baseball diamond infield. Due to the compacted nature of Area C it was only possible to sample the surface soil (0 - 5 cm). All data were compared with the MOE Table F Ontario Soil Background Criteria and Table A Effects Based Soil Criteria (MOE 1997).

Metal concentrations were not elevated in the sand from the sand boxes. The sand present is not likely native to the school property and is believed to have been introduced when the sanded play areas were constructed. Thus the sand was not expected to have elevated metal concentrations. Nickel and copper concentrations were elevated above the MOE Table F Ontario Soil Background Criteria in the surface layer of the both the gravel playground and the baseball diamond infield. Nickel concentrations were elevated above the MOE Table A Effects Based Soil Criteria in the surface samples collected from the baseball diamond infield. The highest nickel and copper concentrations found at this property were 170 and 160 ppm, respectively. All other metals listed, as well as aluminum (Al), calcium (Ca), iron (Fe), magnesium (Mg), manganese (Mn), and strontium (Sr) which are not listed, were below the MOE Table F Ontario Soil Background Criteria.

Previous MOE sampling of undisturbed soils approximately 1 km east of St. Andrew School, Station 83 of the MOE Sudbury 2000 Report for the City of Greater Sudbury (MOE 2001), indicated nickel and copper surface soil concentrations that are similar to those found on the school property; nickel and copper concentration ranges of 90 to 180 ppm and 74 to 210 ppm, respectively. However, Station 86, located approximately 1 km southwest of the Sacred Heart, indicated nickel and copper concentrations as high as 375 and 305 ppm, respectively.

Table B2.2.7: Concentration of 13 Elements in Soil in µg/g Collected at St. Andrew, 1305 Holland Road, Sudbury - 2001																
Map ID	Station	Sample Number	Soil Depth	Sb	As	Ba	Cd	Cr	Co	Cu	Pb	Mo	Ni	Se	V	Zn
Area A gravel	5037212	14341	0 - 5	< 0.8	< 5	27	< 0.8	28	10	91	12	< 1.5	93	< 1	30	30
		14342	0 - 5	< 0.8	< 5	24	< 0.8	30	11	100	15	< 1.5	100	< 1	30	36
Area B sand	5037213	14343	0 - 15	< 0.8	< 5	19	< 0.8	23	6	20	3	< 1.5	29	< 1	28	16
Area C soil	5037214	14344	0 - 5	< 0.8	8	44	< 0.8	33	15	160	20	< 1.5	170	< 1	39	40
		14345	0 - 5	< 0.8	8	42	< 0.8	32	16	160	20	< 1.5	160	< 1	32	38
Table F (results in bold)				1.0	14	190	1.0	67	19	56	55	2.5	43	1.4	91	150
Table A (results in bold and underlined)				13	20	750	12	750	40	225	200	5.0	150	10	200	600
< - less than the Method Detection Limit.																
Al, Ca, Fe, Mg, Mn, and Sr results can be found in Table 4.1.																

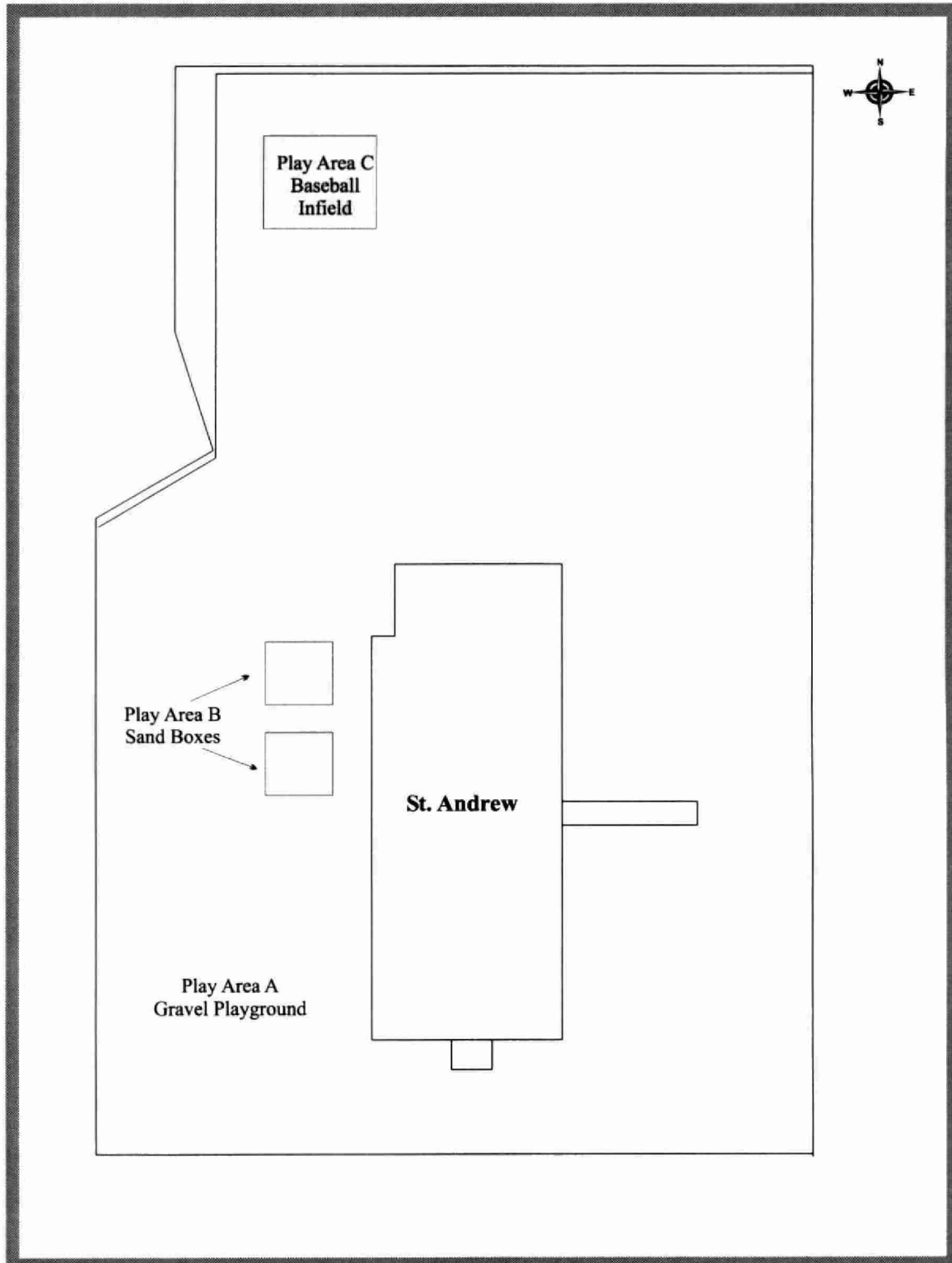


Figure B2.2.7: St. Andrew Sampling Locations - 2001.

2.2.8 St. Anne - Sudbury Catholic District School Board 539 Francis Street, Hanmer

St. Anne School was sampled on July 20, 2001 and has since been renamed Bishop Alexander Carter Secondary School. Figure B2.2.8 details the sampling locations at this property. Samples were taken from four areas on the school property. Area A corresponds to sand samples taken from the sanded play areas. Area B corresponds to the gravel playground at the south side of the property. Due to the constant mixing of the sand and the homogenous nature of the sanded areas, sand samples were collected with hand trowels to represent the 0-15 cm depth. Hand trowels were also used to collect gravel samples to represent the 0-5 cm depth. Areas C and D correspond to the baseball diamond infield and outfield, respectively. Due to the compacted nature of Areas C and D it was only possible to sample the surface soil (0 - 5 cm). All data were compared with the MOE Table F Ontario Soil Background Criteria and Table A Effects Based Soil Criteria (MOE 1997).

Metal concentrations were not elevated in the sand from the sanded play areas. The sand present is not likely native to the school property and is believed to have been introduced when the sanded play areas were constructed. Thus the sand was not expected to have elevated metal concentrations. None of the other samples from this property were found to have elevated metal concentrations above the MOE Table F Ontario Soil Background Criteria. All other metals listed, as well as aluminum (Al), calcium (Ca), iron (Fe), magnesium (Mg), manganese (Mn), and strontium (Sr) which are not listed, were below the MOE Table F Ontario Soil Background Criteria.

These results are lower than those reported historically. Previous MOE sampling of undisturbed soils approximately 2.5 km southwest, 1.5 km north and 1 km southeast of St. Anne School, Stations 344, 346, and 347, respectively, of the MOE Sudbury 2000 Report for the City of Greater Sudbury (MOE 2001), indicated nickel and copper surface soil concentration ranges of 43 to 150 ppm and 35 to 110 ppm, respectively. Historic MOE sampling in the Sudbury area was of undeveloped surface soils which may not be representative of the materials sampled on this property.

Table B2.2.8: Concentration of 13 Elements in Soil in µg/g Collected at St. Anne, 539 Francis Street, Hanmer - 2001

Map ID	Station	Sample Number	Soil Depth	Sb	As	Ba	Cd	Cr	Co	Cu	Pb	Mo	Ni	Se	V	Zn
Area A sand	5037347	14637	0 - 15	< 0.8	< 5	21	< 0.8	32	6	17	4	< 1.5	22	< 1	38	25
Area B gravel	5037348	14638	0 - 5	< 0.8	< 5	23	< 0.8	30	7	29	7	< 1.5	34	< 1	32	32
		14639	0 - 5	< 0.8	< 5	23	< 0.8	31	7	29	8	< 1.5	35	< 1	31	35
Area C gravel	5037349	14640	0 - 5	< 0.8	< 5	27	< 0.8	19	5	13	3	< 1.5	17	< 1	22	15
Area D grass	5037350	14641	0 - 5	< 0.8	< 5	32	< 0.8	25	4	22	7	< 1.5	33	< 1	25	30
		14642	0 - 5	< 0.8	< 5	34	< 0.8	27	5	26	8	< 1.5	37	< 1	29	34
		14643	5 - 10	< 0.8	< 5	32	< 0.8	26	5	20	7	< 1.5	32	< 1	27	23
Table F (results in bold)				1.0	14	190	1.0	67	19	56	55	2.5	43	1.4	91	150
Table A (results in bold and underlined)				13	20	750	12	750	40	225	200	5.0	150	10	200	600
< - less than the Method Detection Limit.				Al, Ca, Fe, Mg, Mn, and Sr results can be found in Table 4.1.												

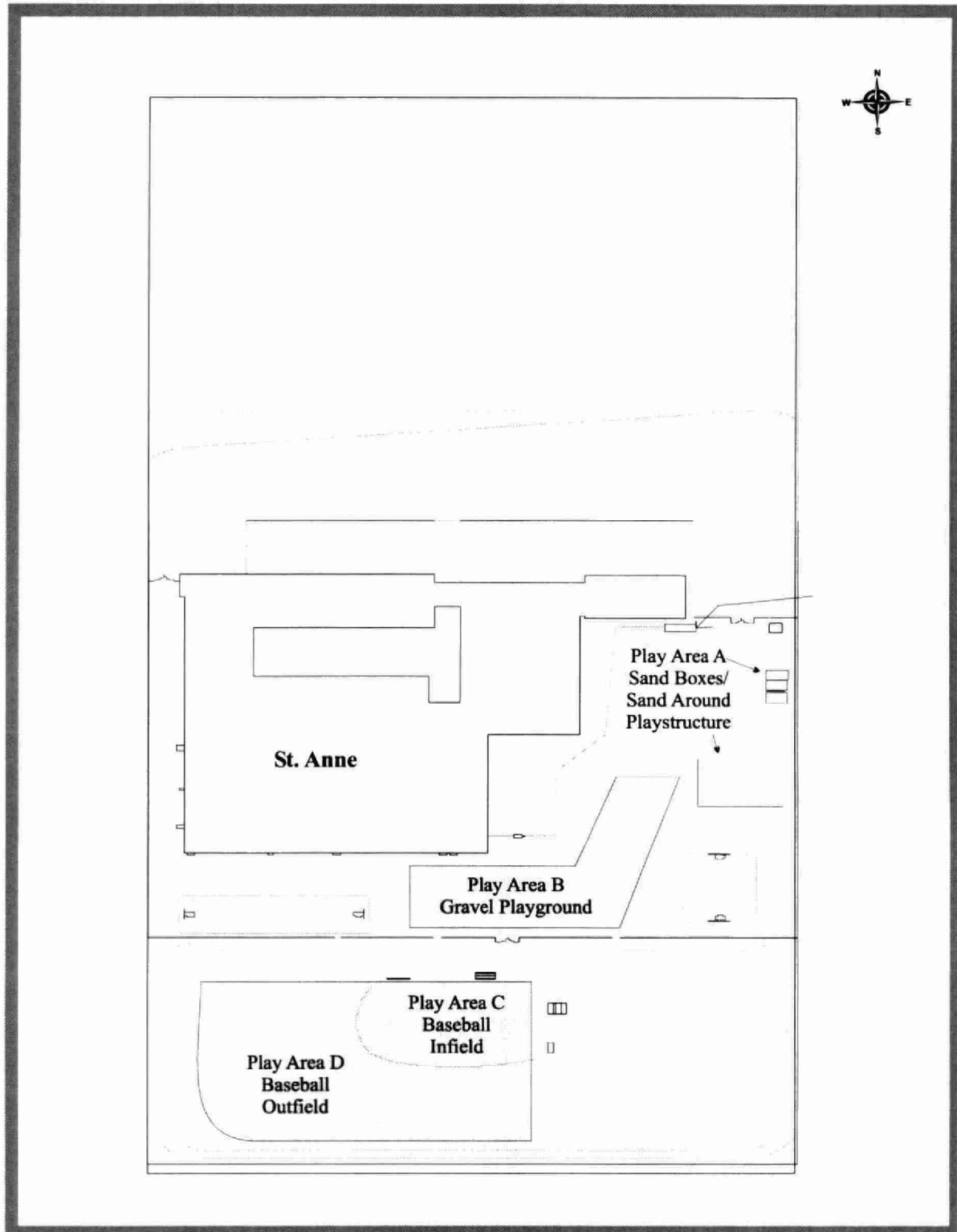


Figure B2.2.8: St. Anne Sampling Locations - 2001.

2.2.9 St. Anthony - Sudbury Catholic District School Board 11 Mary Street, Sudbury

St. Anthony was sampled on July 6, 2001 and has since been closed. Figure B2.2.9 details the sampling locations at this property. Samples were taken from two areas on the school property. Area A corresponds to the gravel playground on the north side of the school building. Area B corresponds to the sand collected from the landing area of the long jump pits. Due to the constant mixing of the sand and the homogenous nature of the sanded areas, sand samples were collected with hand trowels to represent the 0-15 cm depth. Hand trowels were also used to collect gravel samples to represent the 0-5 cm depth. All data were compared with the MOE Table F Ontario Soil Background Criteria and Table A Effects Based Soil Criteria (MOE 1997).

Nickel (Ni), copper (Cu), cobalt (Co), molybdenum (Mo), and selenium (Se) concentrations were elevated above the MOE Table F Ontario Soil Background Criteria in gravel and sand samples collected from this property. Nickel and copper concentrations were also elevated above the MOE Table A Effects Based Soil Criteria in the gravel playground samples. The highest nickel, and copper concentrations found in the gravel samples were 290 and 310 ppm, respectively. All other metals listed, as well as aluminum (Al), calcium (Ca), iron (Fe), magnesium (Mg), manganese (Mn), and strontium (Sr) which are not listed, were below the MOE Table F Ontario Soil Background Criteria.

The nickel concentrations are similar to those reported historically, whereas the copper concentrations at this site are higher than previously reported. Previous MOE sampling of undisturbed soils approximately 1.4 km northeast and 1.5 km north of St. Anthony, Stations 378 and 83, respectively, of the MOE Sudbury 2000 Report, for the City of Greater Sudbury (MOE 2001), indicated nickel and copper surface soil concentration ranges of 90 to 250, and 74 to 210 ppm, respectively. Historic MOE sampling in the Sudbury area was of undeveloped surface soils which may not be representative of the materials sampled on this property.

Table B2.2.9: Concentration of 13 Elements in Soil in µg/g Collected at St. Anthony, 11 Mary Street, Sudbury - 2001

Map ID	Station	Sample Number	Soil Depth	Sb	As	Ba	Cd	Cr	Co	Cu	Pb	Mo	Ni	Se	V	Zn
Area A gravel	5037103	14205	0 - 5	< 0.8	6	39	< 0.8	36	20	<u>310</u>	15	< 1.5	<u>290</u>	2	33	40
		14206	0 - 5	0.9	5	35	< 0.8	34	17	<u>270</u>	13	4.3	<u>260</u>	1.6	32	32
Area B sand	5037104	14207	0 - 15	< 0.8	6	29	< 0.8	40	11	86	6	< 1.5	77	< 1	42	27
Table F (results in bold)				1.0	14	190	1.0	67	19	56	55	2.5	43	1.4	91	150
Table A (results in bold and underlined)				13	20	750	12	750	40	225	200	5.0	150	10	200	600
< - less than the Method Detection Limit.																
Al, Ca, Fe, Mg, Mn, and Sr results can be found in Table 4.1.																

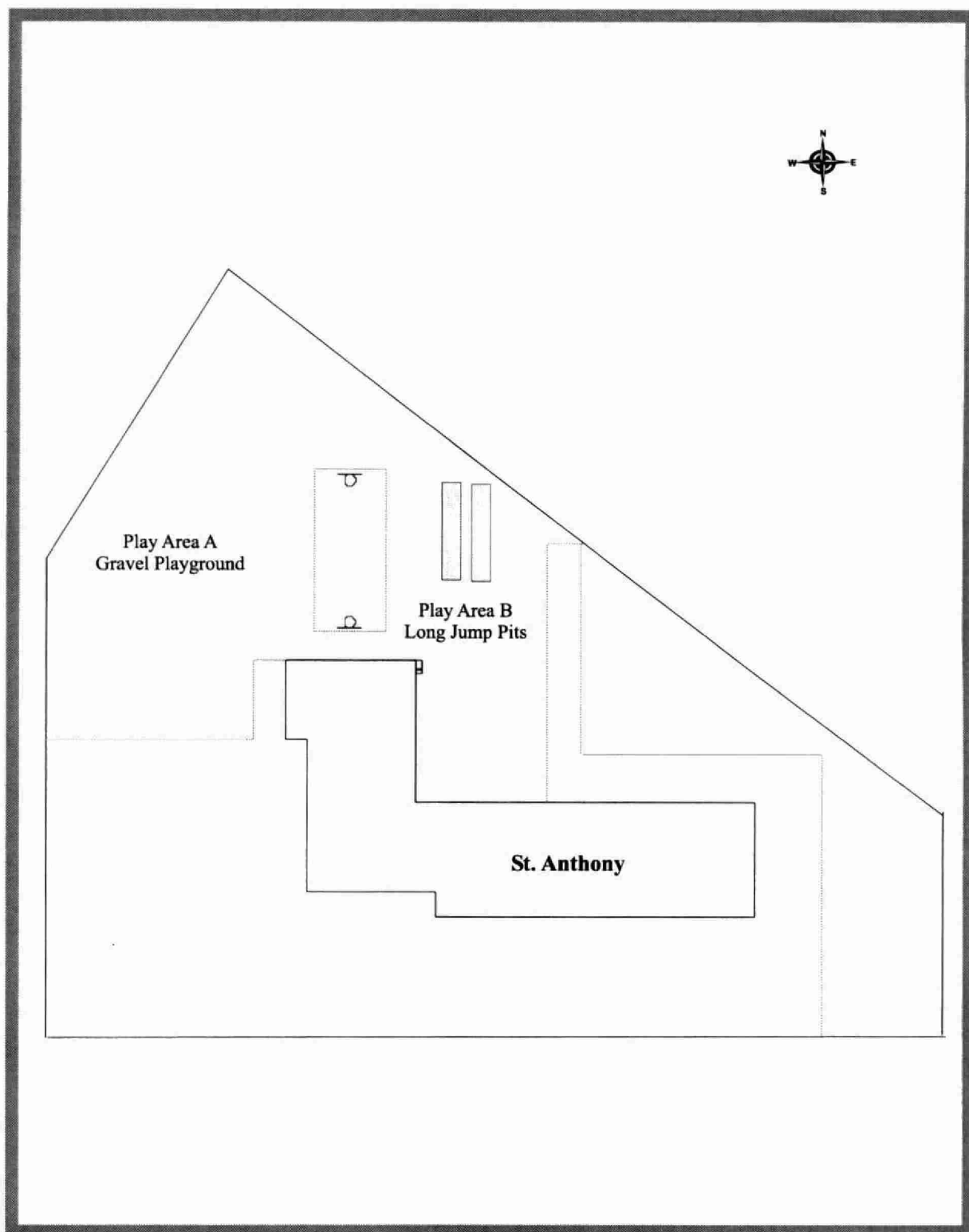


Figure B2.2.9: St. Anthony Sampling Locations - 2001.

2.2.10 St. Benedict Secondary School - Sudbury Catholic School Board 2993 Algonquin Road, Sudbury

St. Benedict Secondary School, including Maple Tree Preschool Inc. #2, was sampled on July 4, 2001. Figure B2.2.10 details the sampling locations at this property. Samples were taken from three areas on the school property. Area A corresponds to the grassed area of the soccer field. Areas B and C correspond to the worn areas around the north and south goal posts, respectively. Due to the compacted nature of the soccer field, it was only possible to sample the surface soil (0 - 5 cm) layer. All data were compared with the MOE Table F Ontario Soil Background Criteria and Table A Effects Based Soil Criteria (MOE 1997).

Only one sample from the grassed area of the soccer field had a nickel (Ni) concentration that was slightly elevated above the MOE Table F Ontario Soil Background Criteria. All other metals listed, as well as aluminum (Al), calcium (Ca), iron (Fe), magnesium (Mg), manganese (Mn), and strontium (Sr) which are not listed, were below the MOE Table F Ontario Soil Background Criteria. There were no exceedences of the MOE Table A Effects Based Soil Criteria (MOE 1997).

These results are lower than those reported historically. Previous MOE sampling of undisturbed soils approximately 1.5 km west, 2 km southwest, and 2 km north of St. Benedict Secondary School, Stations 404, 366, and 365, respectively, of the MOE Sudbury 2000 Report, for the City of Greater Sudbury (MOE 2001), indicated a nickel surface soil concentration range of 120 to 170 ppm. Historic MOE sampling in the Sudbury area was of undeveloped surface soils which may not be representative of the materials sampled on this property.

Table B2.2.10: Concentration of 13 Elements in Soil in µg/g Collected at St. Benedict Secondary, 2993 Algonquin Road, Sudbury - 2001																
Map ID	Station	Sample Number	Soil Depth	Sb	As	Ba	Cd	Cr	Co	Cu	Pb	Mo	Ni	Se	V	Zn
Area A grass	5037023	14058	0 - 5	< 0.8	< 5	32	< 0.8	29	6	29	7	< 1.5	46	< 1	29	19
		14059	0 - 5	< 0.8	< 5	29	< 0.8	25	5	26	6	< 1.5	40	< 1	23	17
Area B soil	5037024	14060	0 - 5	< 0.8	< 5	29	< 0.8	22	4	25	7	< 1.5	30	< 1	24	17
		14061	0 - 5	< 0.8	< 5	28	< 0.8	22	4	19	7	< 1.5	31	< 1	24	15
Area C soil	5037025	14062	0 - 5	< 0.8	< 5	32	< 0.8	28	6	25	4	< 1.5	40	< 1	30	16
		14063	0 - 5	< 0.8	< 5	36	< 0.8	30	6	24	4	< 1.5	39	< 1	33	16
Table F (results in bold)				1.0	14	190	1.0	67	19	56	55	2.5	43	1.4	91	150
Table A (results in bold and underlined)				13	20	750	12	750	40	225	200	5.0	150	10	200	600
< - less than the Method Detection Limit.				Al, Ca, Fe, Mg, Mn, and Sr results can be found in Table 4.1.												

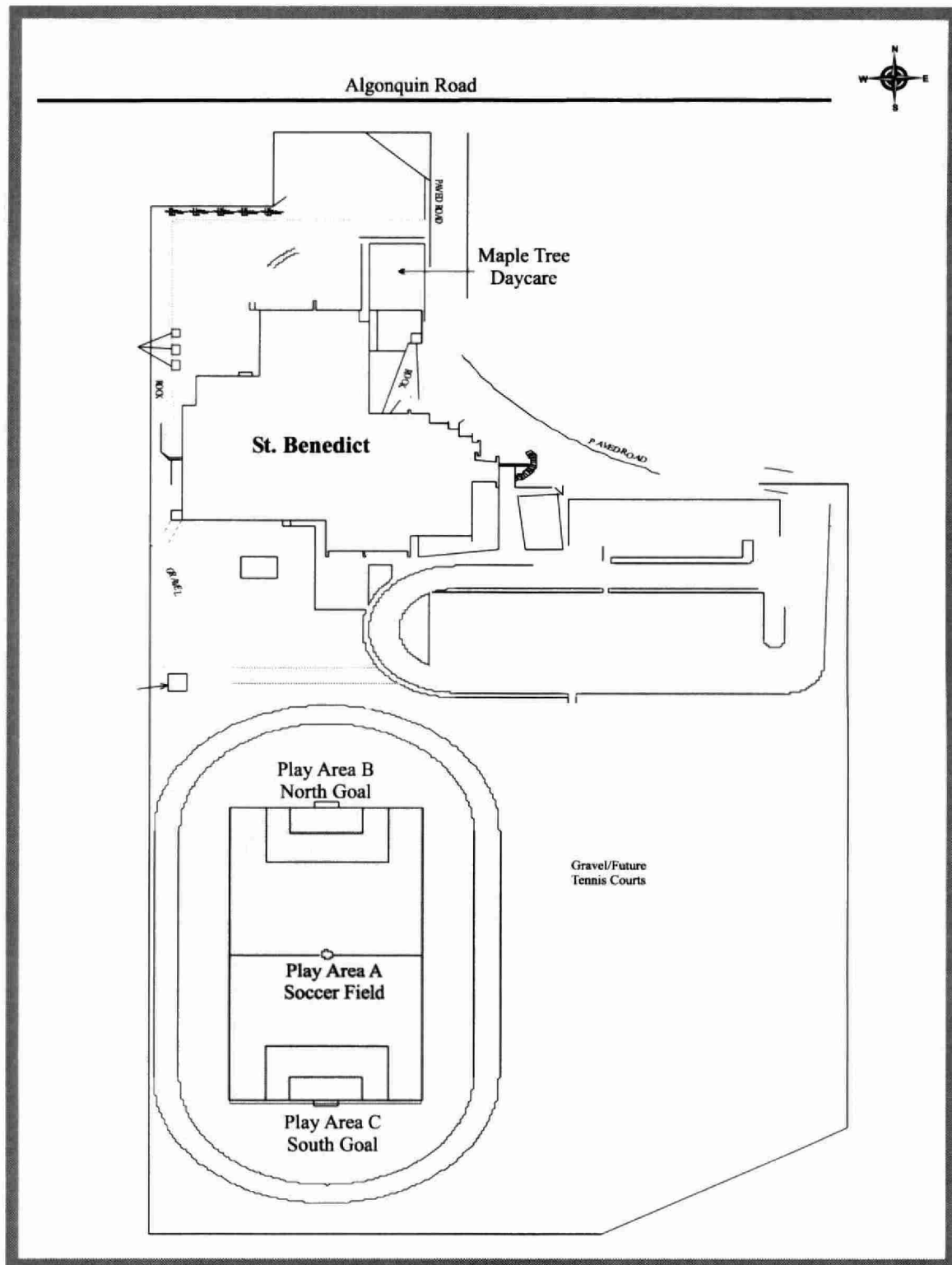


Figure B2.2.10: St. Benedict Secondary School Sampling Locations - 2001.

2.2.11 St. Bernadette - Sudbury Catholic District School Board 870 Auger Avenue, Sudbury

St. Bernadette was sampled on July 18, 2001. Figure B2.2.11 details the sampling locations at this property. Samples were taken from two areas on the school property. Area A corresponds to the gravel baseball diamond infield. Area B corresponds to the gravel playground. Due to the constant mixing of gravel and the homogenous nature of the gravel areas, samples were collected with hand trowels to represent the 0-5 cm depth. All data were compared with the MOE Table F Ontario Soil Background Criteria and Table A Effects Based Soil Criteria (MOE 1997).

Nickel (Ni), copper (Cu), and cobalt (Co) concentrations were elevated above the MOE Table F Ontario Soil Background Criteria in the gravel samples collected from this property. The highest nickel, cobalt, and copper concentrations found in the gravel samples were 100, 21 and 100 ppm, respectively. All other metals listed, as well as aluminum (Al), calcium (Ca), iron (Fe), magnesium (Mg), manganese (Mn), and strontium (Sr) which are not listed, were below the MOE Table F Ontario Soil Background Criteria. There were no exceedences of the MOE Table A Effects Based Soil Criteria at this property.

These results are higher than those reported historically. Previous MOE sampling of undisturbed soils approximately 1 km southwest of St. Bernadette, Station 361 of the MOE Sudbury 2000 Report for the City of Greater Sudbury (MOE 2001), indicated nickel, copper, and cobalt surface soil concentrations of 66, 52, and 9.3 ppm, respectively. Historic MOE sampling in the Sudbury area was of undeveloped surface soils which may not be representative of the materials sampled on this property.

Table B2.2.11: Concentration of 13 Elements in Soil in µg/g Collected at St. Bernadette, 870 Auger Avenue, Sudbury - 2001																
Map ID	Station	Sample Number	Soil Depth	Sb	As	Ba	Cd	Cr	Co	Cu	Pb	Mo	Ni	Se	V	Zn
Area A gravel	5037164	14444	0 - 5	< 0.8	8	30	< 0.8	28	11	86	16	< 1.5	93	< 1	32	24
		14445	0 - 5	< 0.8	8	26	< 0.8	26	11	81	15	< 1.5	85	< 1	29	24
Area B gravel	5037165	14446	0 - 5	< 0.8	7	28	< 0.8	28	21	100	11	< 1.5	100	< 1	26	32
		14447	0 - 5	< 0.8	< 5	23	< 0.8	29	26	79	10	< 1.5	91	< 1	28	33
Table F (results in bold)				1.0	14	190	1.0	67	19	56	55	2.5	43	1.4	91	150
Table A (results in bold and underlined)				13	20	750	12	750	40	225	200	5.0	150	10	200	600
< - less than the Method Detection Limit.																
Al, Ca, Fe, Mg, Mn, and Sr results can be found in Table 4.1.																

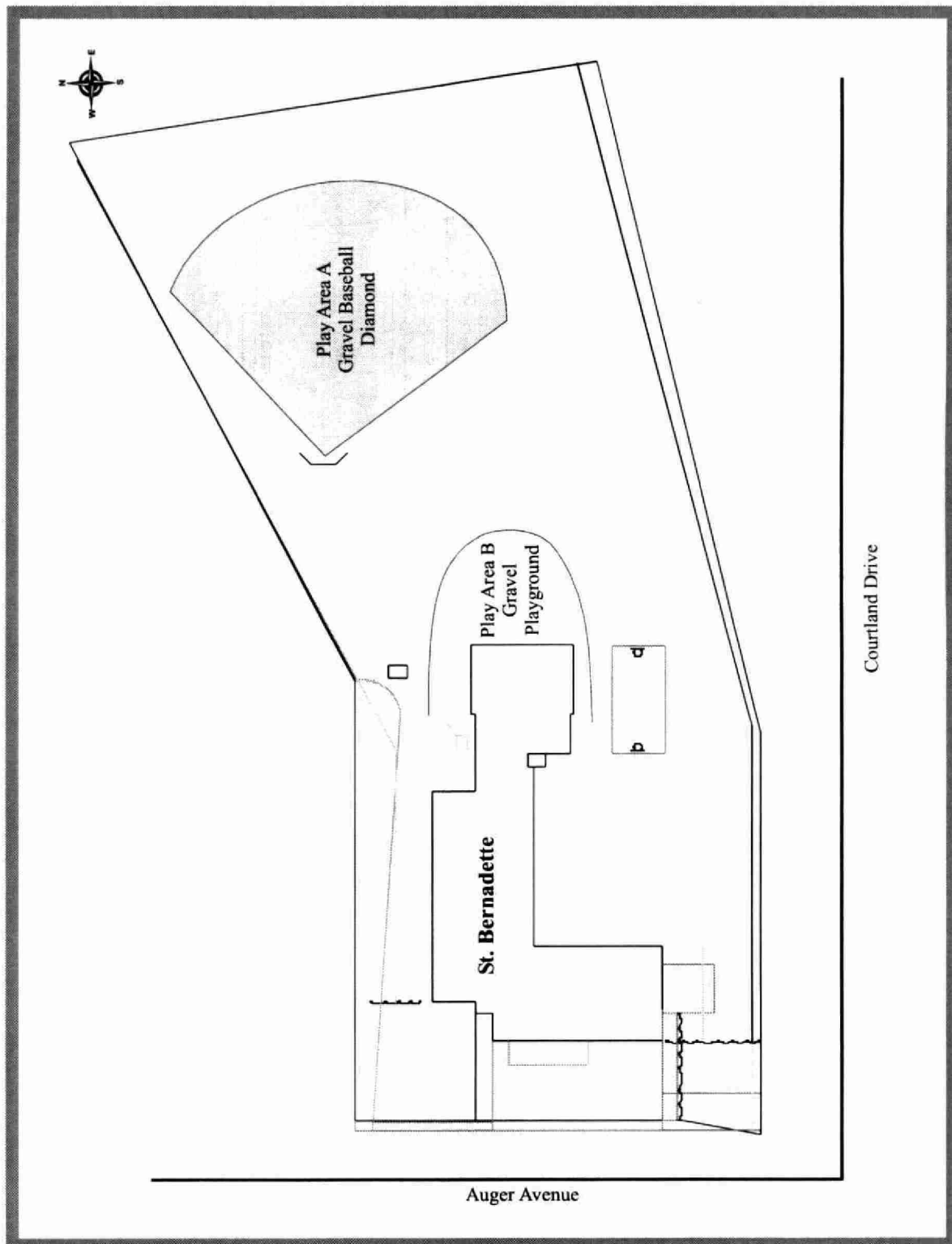


Figure B2.2.11: St. Bernadette Sampling Locations - 2001.

2.2.12 St. Charles - Sudbury Catholic District School Board 26 Charlotte Street, Chelmsford

St. Charles School was sampled on July 19, 2001. Figure B2.2.12 details the sampling locations at this property. Samples were taken from two areas on the school property. Area A corresponds to the gravel playground on the east side of the school building. Area B corresponds to sand samples collected from below the play structure. Due to the constant mixing of the sand and the homogenous nature of the sanded areas, sand samples were collected with hand trowels to represent the 0-15 cm depth. Hand trowels were also used to collect gravel samples to represent the 0-5 cm depth. All data were compared with the MOE Table F Ontario Soil Background Criteria and Table A Effects Based Soil Criteria (MOE 1997).

Metal concentrations were not elevated in the sand beneath the play structure. The sand present is not likely native to the school property and is believed to have been introduced when the sanded play areas were constructed. Thus the sand was not expected to have elevated metal concentrations. Nickel (Ni) concentrations were elevated above the MOE Table F Ontario Soil Background Criteria in the gravel samples, with the highest nickel concentration being 63 ppm. All other metals listed, as well as aluminum (Al), calcium (Ca), iron (Fe), magnesium (Mg), manganese (Mn), and strontium (Sr) which are not listed, were below the MOE Table F Ontario Soil Background Criteria. There were no exceedences of the MOE Table A Effects Based Soil Criteria at this property.

These results are similar to those reported historically. Previous MOE sampling of undisturbed soils approximately 4 km southwest and 2.5 km northwest of St. Charles School, Stations 385 and 386, respectively, of the MOE Sudbury 2000 Report for the City of Greater Sudbury (MOE 2001), indicated a nickel surface soil concentration range of 65 to 83 ppm. Historic MOE sampling in the Sudbury area was of undeveloped surface soils which may not be representative of the materials sampled on this property.

Table B2.2.12: Concentration of 13 Elements in Soil in µg/g Collected at St. Charles, 26 Charlotte Street, Chelmsford - 2001																
Map ID	Station	Sample Number	Soil Depth	Sb	As	Ba	Cd	Cr	Co	Cu	Pb	Mo	Ni	Se	V	Zn
Area A gravel	5037394	14520	0 - 5	< 0.8	< 5	25	< 0.8	27	7	35	6	< 1.5	59	< 1	30	25
		14521	0 - 5	< 0.8	< 5	25	< 0.8	26	7	44	6	< 1.5	63	< 1	31	27
Area B sand	5037395	14522	0 - 15	< 0.8	< 5	13	< 0.8	24	4	11	3	< 1.5	13	< 1	24	21
Table F (results in bold)				1.0	14	190	1.0	67	19	56	55	2.5	43	1.4	91	150
Table A (results in bold and underlined)				13	20	750	12	750	40	225	200	5.0	150	10	200	600
< - less than the Method Detection Limit.																
Al, Ca, Fe, Mg, Mn, and Sr results can be found in Table 4.1.																

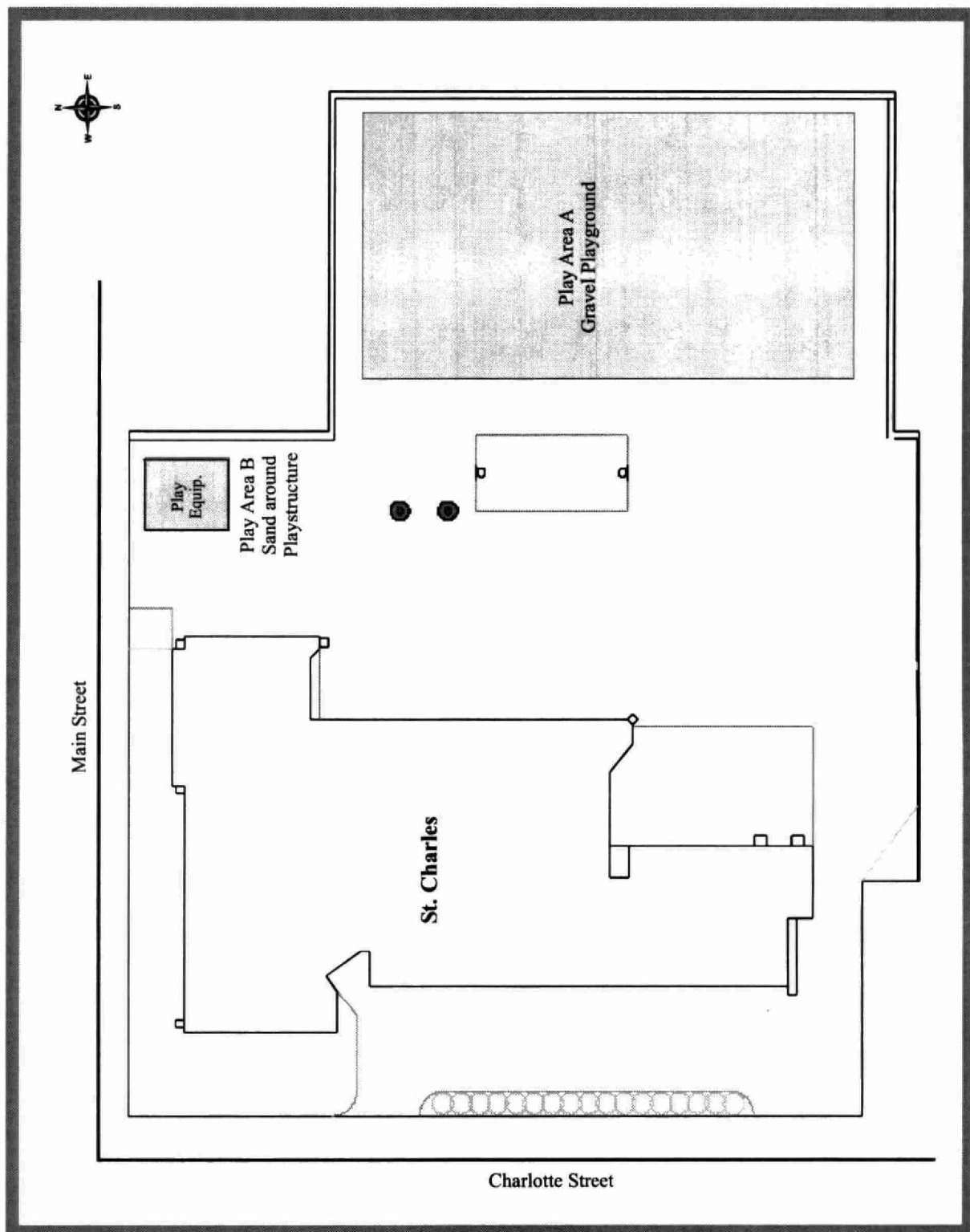


Figure B2.2.12: St. Charles Sampling Locations - 2001.

2.2.13 St. Charles College - Sudbury Catholic District School Board 1940 Hawthorne Drive, Sudbury

St. Charles College was sampled on July 18, 2001. Figure B2.2.13 details the sampling locations at this property. Samples were taken from four areas on the school property. Areas A and B correspond to the grassed area of the east soccer field and the worn areas around the east soccer field goal posts, respectively. Areas C and D correspond to the west soccer field and the worn areas around the west soccer field goal posts, respectively. Due to the compacted nature of both soccer fields, it was only possible to sample the surface soil (0-5 cm). All data were compared with the MOE Table F Ontario Soil Background Criteria and Table A Effects Based Soil Criteria (MOE 1997).

Nickel (Ni), copper (Cu), lead (Pb), and antimony (Sb) concentrations were elevated above the MOE Table F Ontario Soil Background Criteria in the gravel samples. The highest nickel and copper concentrations, 120 and 93 ppm, respectively, were found in the surface soil of the west soccer field while the highest lead and antimony concentrations, 130 and 2.1 ppm, respectively, were found in the surface soil of the east soccer field. All other metals listed, as well as aluminum (Al), calcium (Ca), iron (Fe), magnesium (Mg), manganese (Mn), and strontium (Sr) which are not listed, were below the MOE Table F Ontario Soil Background Criteria. There were no exceedences of the MOE Table A Effects Based Soil Criteria at this property.

These nickel and copper results are similar to those reported historically, while these lead results are higher than previously reported. Previous MOE sampling of undisturbed soils approximately 1 km northwest and 2 km west of St. Charles College, Stations 43 and 86, respectively, of the MOE Sudbury 2000 Report for the City of Greater Sudbury (MOE 2001), indicated nickel and copper surface soil concentration ranges of 28 to 375 and 33 to 305 ppm, respectively. The highest lead concentration found at these historic sites was 39 ppm. Unfortunately, these historical samples were not analyzed for antimony. Historic MOE sampling in the Sudbury area was of undeveloped surface soils which may not be representative of the materials sampled on this property.

Table B2.2.13: Concentration of 13 Elements in Soil in µg/g Collected at St. Charles College, 1940 Hawthorne Drive, Sudbury - 2001																
Map ID	Station	Sample Number	Soil Depth	Sb	As	Ba	Cd	Cr	Co	Cu	Pb	Mo	Ni	Se	V	Zn
Area A grass	5037160	14438	0 - 5	2.1	6	38	< 0.8	30	7	67	130	< 1.5	86	< 1	25	29
		14439	0 - 5	1.6	6	46	< 0.8	30	6	67	92	< 1.5	85	< 1	25	29
Area B soil	5037162	14442	0 - 5	0.8	5	34	< 0.8	31	6	41	24	< 1.5	59	< 1	27	26
Area C grass	5037161	14440	0 - 5	< 0.8	8	31	< 0.8	30	6	89	49	< 1.5	100	< 1	22	24
		14441	0 - 5	< 0.8	7	34	< 0.8	45	7	93	120	< 1.5	120	< 1	21	28
Area D soil	5037163	14443	0 - 5	< 0.8	5	45	< 0.8	38	8	43	13	< 1.5	69	< 1	32	28
Table F (results in bold)				1.0	14	190	1.0	67	19	56	55	2.5	43	1.4	91	150
Table A (results in bold and underlined)				13	20	750	12	750	40	225	200	5.0	150	10	200	600
< - less than the Method Detection Limit.				Al, Ca, Fe, Mg, Mn, and Sr results can be found in Table 4.1.												

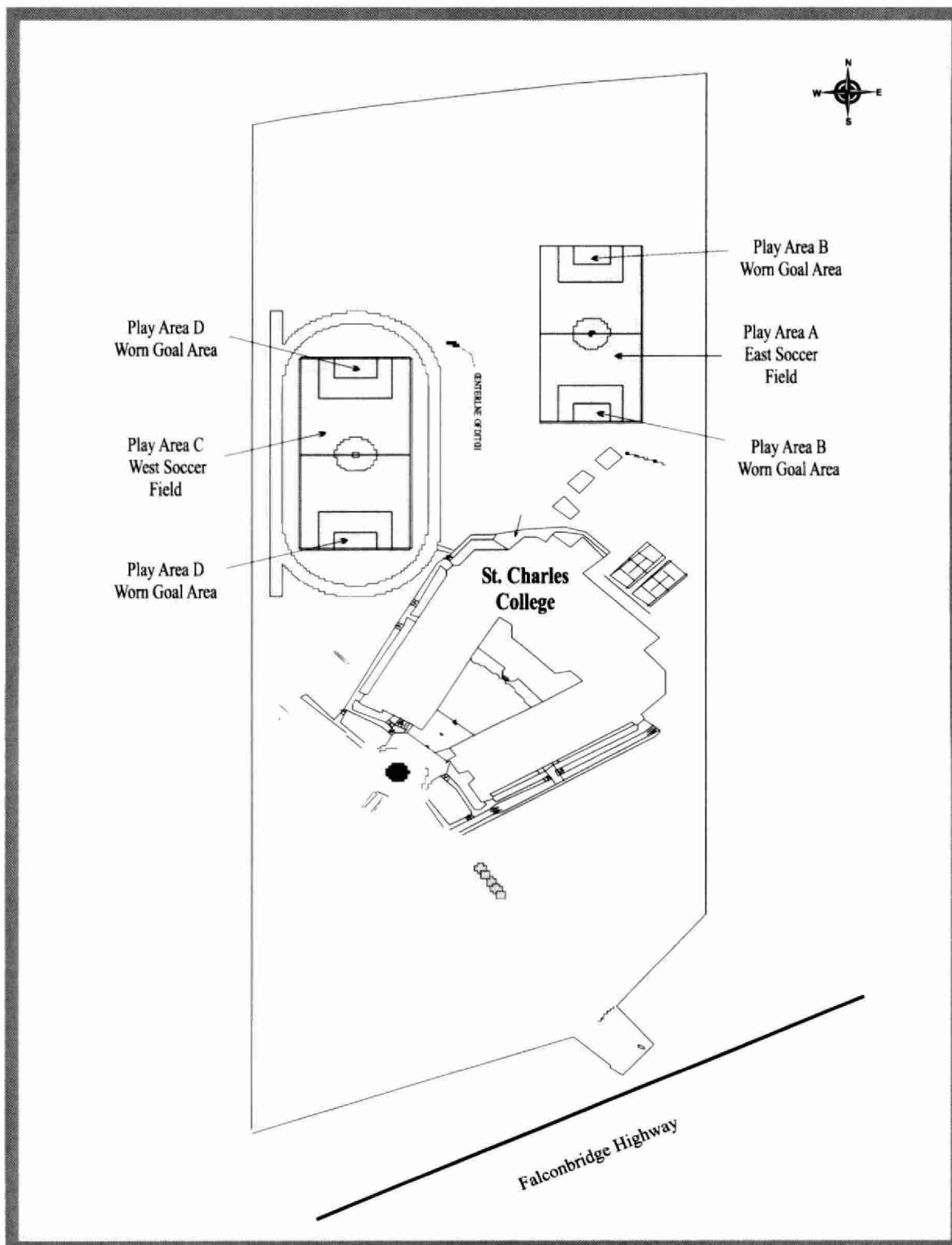


Figure B2.2.13: St. Charles College Sampling Locations - 2001.

2.2.14 St. Christopher - Sudbury Catholic District School Board 2843 CKSO Road, Sudbury

St. Christopher School, including All Nations Daycare, was sampled on July 4, 2001. Figure B2.2.14 details the sampling locations at this property. Samples were taken from three areas on the school property. Area A corresponds to sand samples that were collected below the play structure. Area B corresponds to the gravel baseball diamond infield. Due to the constant mixing of the sand and the homogenous nature of the sanded areas, sand samples were collected with hand trowels to represent the 0-15 cm depth. Hand trowels were also used to collect gravel samples to represent the 0-5 cm depth. Area C corresponds to the grassed baseball diamond outfield. Due to the compacted nature of the grassed area and/or the presence of bedrock at shallow depths, it was only possible to sample the surface soil (0-5 cm). All data were compared with the MOE Table F Ontario Soil Background Criteria and Table A Effects Based Soil Criteria (MOE 1997).

Neither nickel (Ni), copper (Cu) nor cobalt (Co) concentrations were elevated in the sand beneath the play structure. It is not clearly understood why molybdenum (Mo) was elevated above the MOE Table F Ontario Soil Background Criteria in one replicate of the sand samples since this metal is not associated with the local industries. The sand present is not likely native to the school property and is believed to have been introduced when the sanded play areas were constructed. Thus the sand was not expected to have elevated metal concentrations. There were no other exceedences of the MOE Table F Ontario Soil Background Criteria at this property. All metals listed, as well as aluminum (Al), calcium (Ca), iron (Fe), magnesium (Mg), manganese (Mn), and strontium (Sr) which are not listed, were below the MOE Table F Ontario Soil Background Criteria. There were no exceedences of the MOE Table A Effects Based Soil Criteria at this property.

Aside from the elevated molybdenum result, all other results from this property are lower than those reported historically. Previous MOE sampling of undisturbed soils approximately 0.5 km northwest and 2 km northeast of St. Christopher School, Stations 404 and 406, respectively, of the MOE Sudbury 2000 Report for the City of Greater Sudbury (MOE 2001), indicated a nickel surface soil concentration range of 58 to 120 ppm and a maximum molybdenum concentration of less than 0.5 ppm. Historic MOE sampling in the Sudbury area was of undeveloped surface soils which may not be representative of the materials sampled on this property.

Table B2.2.14: Concentration of 13 Elements in Soil in µg/g Collected at St. Christopher, 2843 CKSO Road, Sudbury - 2001																
Map ID	Station	Sample Number	Soil Depth	Sb	As	Ba	Cd	Cr	Co	Cu	Pb	Mo	Ni	Se	V	Zn
Area A sand	5037013	14052	0 - 15	< 0.8	< 5	25	< 0.8	53	8	23	30	4.1	25	< 1	48	110
		14053	0 - 15	< 0.8	< 5	24	< 0.8	32	9	23	3	< 1.5	22	< 1	33	19
Area B gravel	5037014	14054	0 - 5	< 0.8	< 5	39	< 0.8	36	8	27	8	< 1.5	35	< 1	41	30
		14055	0 - 5	< 0.8	< 5	38	< 0.8	38	7	26	7	< 1.5	37	< 1	41	29
Area C grass	5037015	14056	0 - 5	< 0.8	< 5	40	< 0.8	33	7	23	4	< 1.5	30	< 1	32	19
		14057	0 - 5	< 0.8	< 5	40	< 0.8	31	7	25	5	< 1.5	34	< 1	32	20
Table F (results in bold)				1.0	14	190	1.0	67	19	56	55	2.5	43	1.4	91	150
Table A (results in bold and underlined)				13	20	750	12	750	40	225	200	5.0	150	10	200	600
< - less than the Method Detection Limit.																
Al, Ca, Fe, Mg, Mn, and Sr results can be found in Table 4.1.																

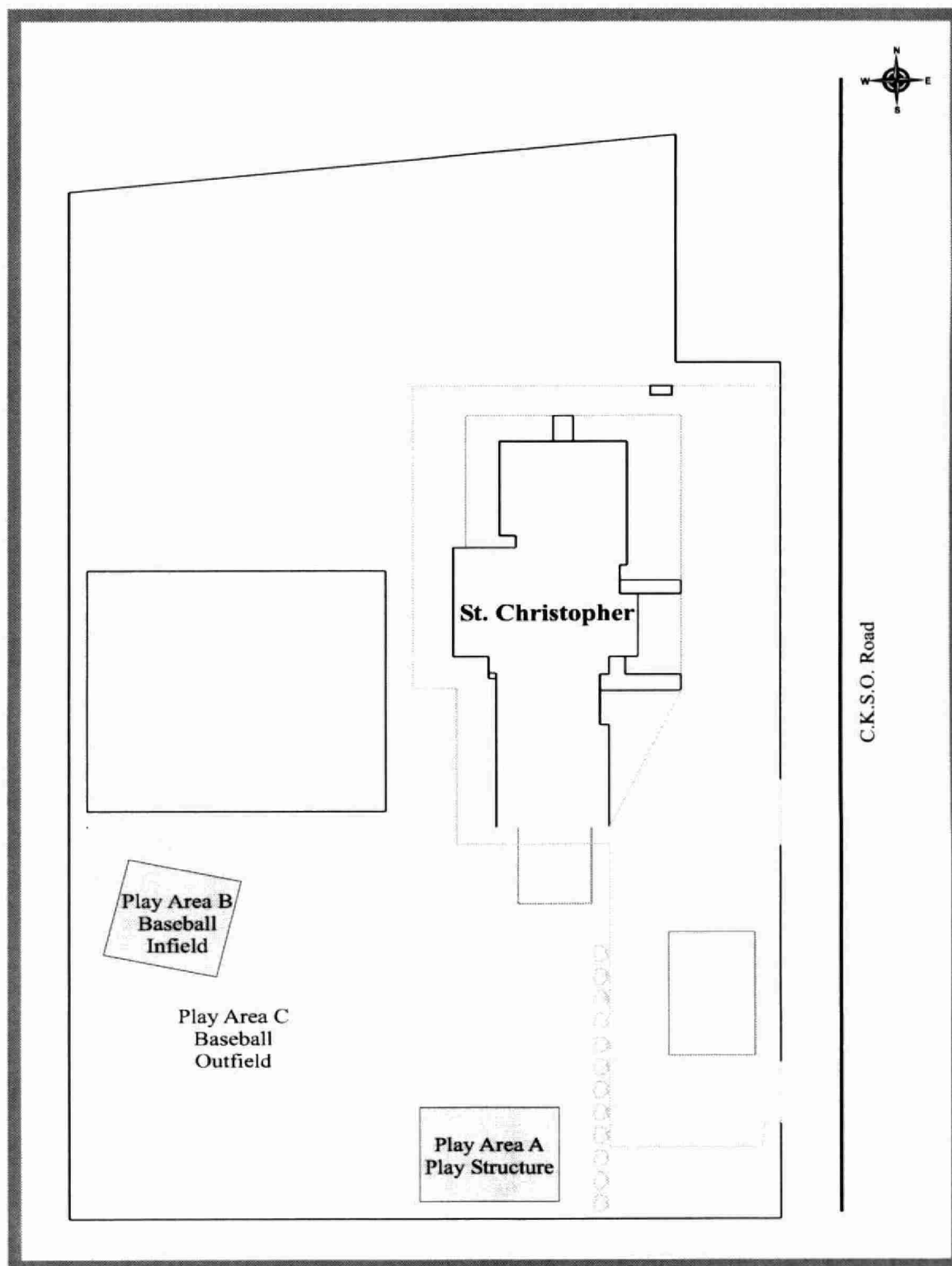


Figure B2.2.14: St. Christopher Sampling Locations - 2001.

2.2.15 St. David - Sudbury Catholic District School Board 350 Jean Street, Sudbury

St. David School was sampled on July 17, 2001. Figure B2.2.15 details the sampling locations at this property. Samples were taken from one area on the school property. Area A corresponds to the gravel playground on the north side of the school building. Due to the constant mixing of the gravel and the homogenous nature of the gravel area, samples were collected using hand trowels to represent the 0-5 cm depth. There were no other play areas on this property to sample. All data were compared with the MOE Table F Ontario Soil Background Criteria and Table A Effects Based Soil Criteria (MOE 1997).

Nickel (Ni), and copper (Cu) concentrations were elevated above the MOE Table F Ontario Soil Background Criteria in one replicate of the gravel samples. The highest nickel and copper concentrations found were 92 and 88 ppm, respectively. All other metals listed, as well as aluminum (Al), calcium (Ca), iron (Fe), magnesium (Mg), manganese (Mn), and strontium (Sr) which are not listed, were below the MOE Table F Ontario Soil Background Criteria. There were no exceedences of the MOE Table A Effects Based Soil Criteria at this property.

These nickel and copper results are much lower than those reported historically. Previous MOE sampling of undisturbed soils approximately 0.5 km south, 2 km west, and 1.5 km north of St. David School, Stations 84, 363, and 362, respectively, of the MOE Sudbury 2000 Report for the City of Greater Sudbury (MOE 2001), indicated nickel and copper surface soil concentration ranges of 230 to 490 and 230 to 450 ppm, respectively. Historic MOE sampling in the Sudbury area was of undeveloped surface soils which may not be representative of the materials sampled on this property.

Table B2.2.15: Concentration of 13 Elements in Soil in µg/g Collected at St. David, 350 Jean Street, Sudbury - 2001																
Map ID	Station	Sample Number	Soil Depth	Sb	As	Ba	Cd	Cr	Co	Cu	Pb	Mo	Ni	Se	V	Zn
Area A gravel	5037118	14267	0 - 5	< 0.8	< 5	18	< 0.8	20	6	18	3	< 1.5	27	< 1	24	17
		14268	0 - 5	< 0.8	< 5	29	< 0.8	28	13	88	8	< 1.5	92	< 1	30	42
Table F (results in bold)				1.0	14	190	1.0	67	19	56	55	2.5	43	1.4	91	150
Table A (results in bold and underlined)				13	20	750	12	750	40	225	200	5.0	150	10	200	600
< - less than the Method Detection Limit.																
Al, Ca, Fe, Mg, Mn, and Sr results can be found in Table 4.1.																

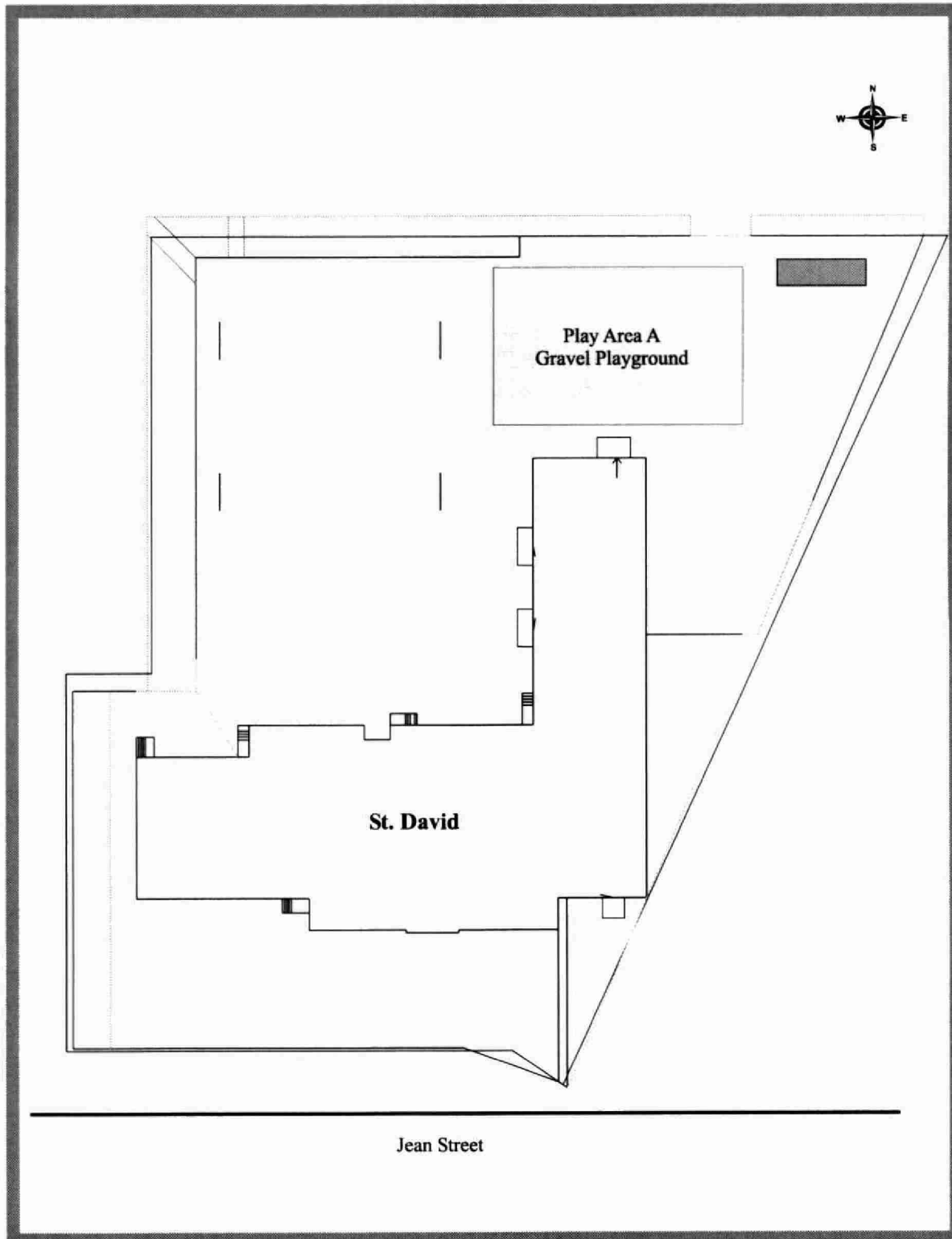


Figure B2.2.15: St. David Sampling Locations - 2001.

2.2.16 St. Francis - Sudbury Catholic District School Board 691 Lilac Street, Sudbury

St. Francis School, including the formerly Jubilee Heritage Centre Daycare, was sampled on July 5, 2001. Figure B2.2.16 details the sampling locations at this property. Samples were taken from three areas on the school property. Area A corresponds to the gravel baseball diamond infield. Area B corresponds to sand samples collected from the landing area of the long jump pits. Area C corresponds to the gravel playground to the northwest side of the school building. Due to the constant mixing of the sand and the homogenous nature of the sanded area, samples were collected using hand trowels to represent the 0-15 cm depth. Hand trowels were also used to collect the gravel samples to represent the 0-5 cm depth. All data were compared with the MOE Table F Ontario Soil Background Criteria and Table A Effects Based Soil Criteria (MOE 1997).

Metal concentrations were not elevated in the sand from the landing area of the long jump pit. The sand present is not likely native to the school property and is believed to have been introduced when the sanded play areas were constructed. Thus the sand was not expected to have elevated metal concentrations. Nickel (Ni), and copper (Cu) concentrations were elevated above the MOE Table F Ontario Soil Background Criteria in all other samples from this property. The highest nickel and copper concentrations, 170 and 180 ppm, respectively, were found in the gravel playground samples. All other metals listed, as well as aluminum (Al), calcium (Ca), iron (Fe), magnesium (Mg), manganese (Mn), and strontium (Sr) which are not listed, were below the MOE Table F Ontario Soil Background Criteria. There was only one sample from the gravel playground that had a nickel concentration elevated above the MOE Table A Effects Based Soil Criteria (MOE 1997).

These nickel and copper results fall in the lower end of the concentration ranges of those reported historically. Previous MOE sampling of undisturbed soils approximately 1 km southwest, 1 km north, and 1 km west of St. Francis School, Stations 73, 378, and 74, respectively, of the MOE Sudbury 2000 Report for the City of Greater Sudbury (MOE 2001), indicated nickel and copper surface soil concentration ranges of 145 to 790 and 158 to 740 ppm, respectively. Historic MOE sampling in the Sudbury area was of undeveloped surface soils which may not be representative of the materials sampled on this property.

Table B2.2.16: Concentration of 13 Elements in Soil in µg/g Collected at St. Francis, 691 Lilac Street, Sudbury - 2001																
Map ID	Station	Sample Number	Soil Depth	Sb	As	Ba	Cd	Cr	Co	Cu	Pb	Mo	Ni	Se	V	Zn
Area A gravel	5037069	14141	0 - 5	< 0.8	< 5	24	< 0.8	31	12	140	15	< 1.5	150	< 1	27	40
		14142	0 - 5	< 0.8	< 5	25	< 0.8	30	13	160	15	< 1.5	150	< 1	26	40
Area B sand	5037070	14143	0 - 15	< 0.8	< 5	21	< 0.8	32	8	30	4	< 1.5	32	< 1	34	21
Area C gravel	5037071	14144	0 - 5	< 0.8	< 5	39	< 0.8	35	13	140	10	< 1.5	130	< 1	29	56
		14145	0 - 5	< 0.8	< 5	39	< 0.8	38	15	180	15	< 1.5	<u>170</u>	< 1	32	110
Table F (results in bold)				1.0	14	190	1.0	67	19	56	55	2.5	43	1.4	91	150
Table A (results in bold and underlined)				13	20	750	12	750	40	225	200	5.0	150	10	200	600
< - less than the Method Detection Limit.																
Al, Ca, Fe, Mg, Mn, and Sr results can be found in Table 4.1.																

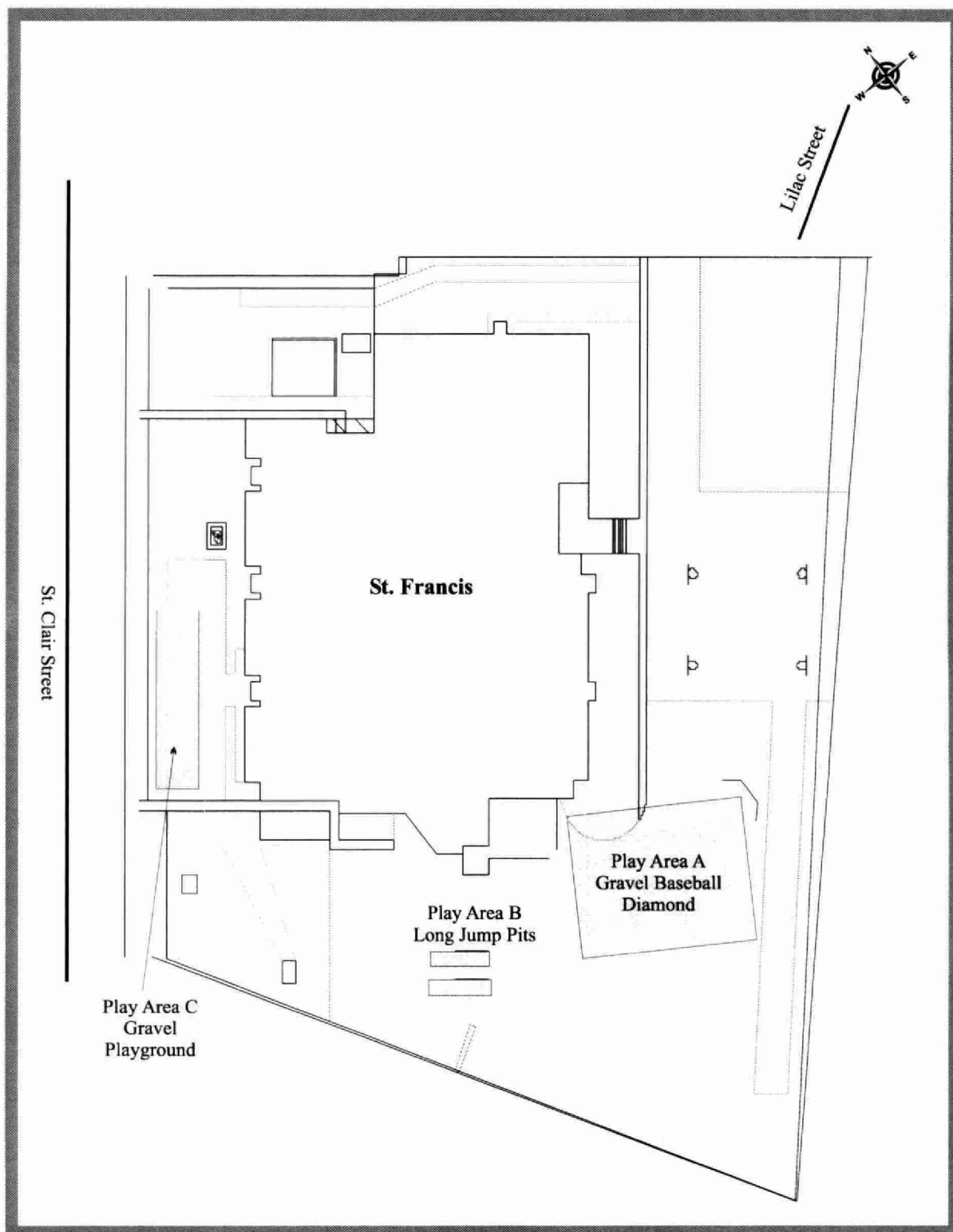


Figure B2.2.16: St. Francis Sampling Locations - 2001.

2.2.17 St. James - Sudbury Catholic District School Board 280 Anderson Drive, Lively

St. James School, including Walden Daycare Centre #2, was sampled on July 21, 2001. Figure B2.2.17 details the sampling locations at this property. Samples were taken from one area on the school property. Area A corresponds to the gravel playground on the north side of the school property. Due to the constant mixing of the gravel and the homogenous nature of the gravel areas, samples were collected using hand trowels to represent the 0-5 cm depth. There were not any other play areas to sample at this property. All data were compared with the MOE Table F Ontario Soil Background Criteria and Table A Effects Based Soil Criteria (MOE 1997).

Nickel (Ni), and copper (Cu) concentrations were elevated above the MOE Table F Ontario Soil Background Criteria in the gravel samples. The highest nickel and copper concentrations found were 70 and 64 ppm, respectively. All other metals listed, as well as aluminum (Al), calcium (Ca), iron (Fe), magnesium (Mg), manganese (Mn), and strontium (Sr) which are not listed, were below the MOE Table F Ontario Soil Background Criteria. There were no exceedences of the MOE Table A Effects Based Soil Criteria at this property.

These nickel and copper results fall in the lower end of the concentration ranges of those reported historically. Previous MOE sampling of undisturbed soils approximately 1 km north, 2 km southwest, and 2 km southeast of St. James School, Stations 376, 375, and 101, respectively, of the MOE Sudbury 2000 Report for the City of Greater Sudbury (MOE 2001), indicated nickel and copper surface soil concentration ranges of 69 to 340 and 61 to 350 ppm, respectively. Historic MOE sampling in the Sudbury area was of undeveloped surface soils which may not be representative of the materials sampled on this property.

Table B2.2.17: Concentration of 13 Elements in Soil in µg/g Collected at St. James, 280 Anderson Drive, Lively - 2001																
Map ID	Station	Sample Number	Soil Depth	Sb	As	Ba	Cd	Cr	Co	Cu	Pb	Mo	Ni	Se	V	Zn
Area A gravel	5037244	14719	0 - 5	< 0.8	5	30	< 0.8	32	11	64	9	< 1.5	70	< 1	31	34
		14720	0 - 5	< 0.8	< 5	30	< 0.8	29	10	48	7	< 1.5	47	< 1	32	30
Table F (results in bold)				1.0	14	190	1.0	67	19	56	55	2.5	43	1.4	91	150
Table A (results in bold and underlined)				13	20	750	12	750	40	225	200	5.0	150	10	200	600
< - less than the Method Detection Limit.																
Al, Ca, Fe, Mg, Mn, and Sr results can be found in Table 4.1																

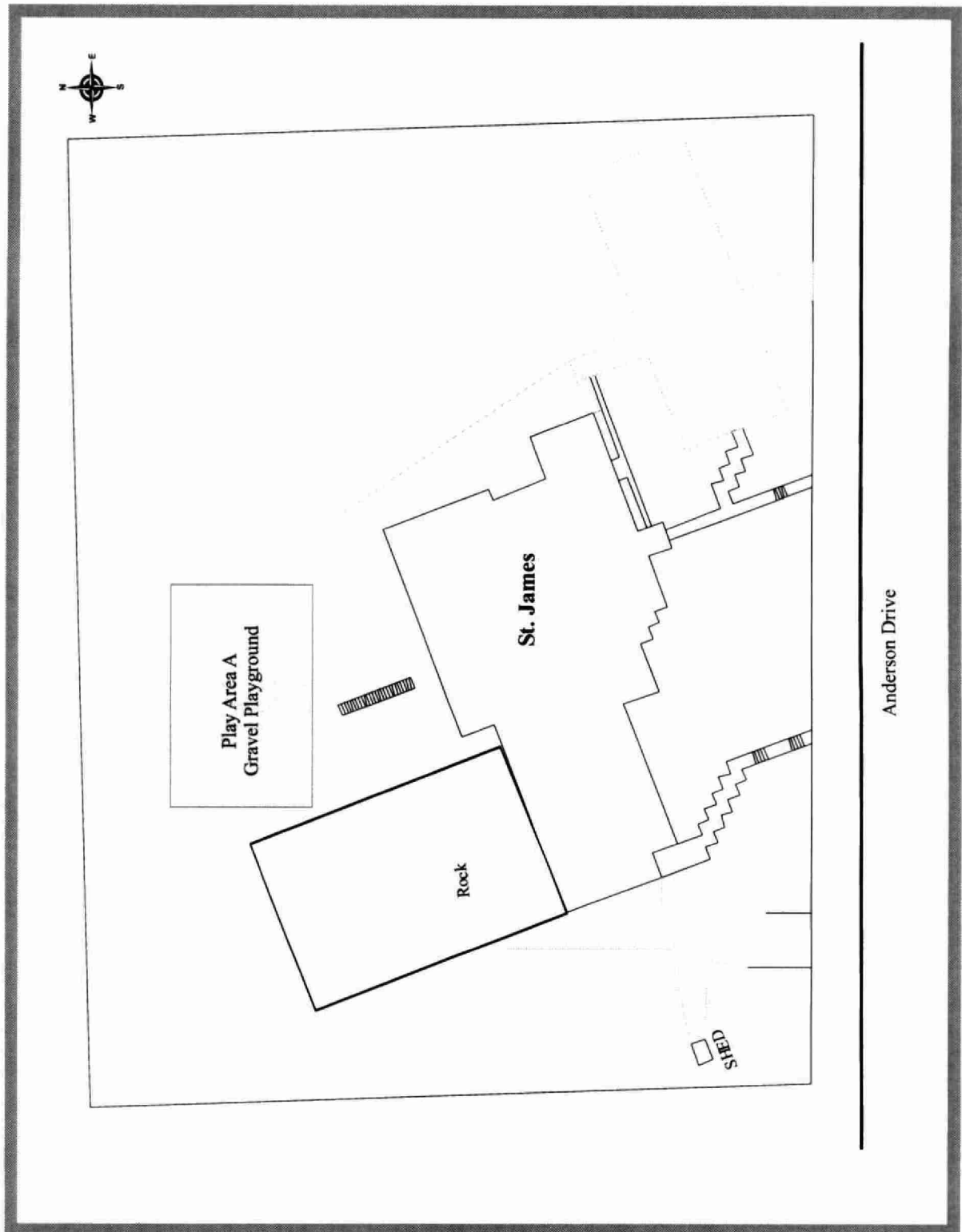


Figure B2.2.17: St. James Sampling Locations - 2001.

2.2.18 St. John - Sudbury Catholic District School Board 181 William Street, Garson

St. John School, including Teddy Bear Daycare #3, was sampled on July 18, 2001. Figure B2.2.18 details the sampling locations at this property. Samples were taken from three areas on the school property. Area A corresponds to the gravel playground on the west side of the school property. Area B corresponds to the gravel playground on the north side of the school building. Area C corresponds to the sand samples collected from the sanded play area on the south edge of the school property. Due to the constant mixing of the sand and the homogenous nature of the sanded area, sand samples were collected using hand trowels to represent the 0-15 cm depth. Hand trowels were also used to collect the gravel samples to represent the 0-5 cm depth. All data were compared with the MOE Table F Ontario Soil Background Criteria and Table A Effects Based Soil Criteria (MOE 1997).

Metal concentrations were not elevated in the sand samples collected from the sanded play area. The sand present is not likely native to the school property and is believed to have been introduced when the sanded play areas were constructed. Thus the sand was not expected to have elevated metal concentrations. Nickel (Ni), and copper (Cu) concentrations were elevated above the MOE Table F Ontario Soil Background Criteria in samples collected from both gravel playgrounds. The highest nickel and copper concentrations, 73 and 59 ppm, respectively, were found in the north gravel playground samples. All other metals listed, as well as aluminum (Al), calcium (Ca), iron (Fe), magnesium (Mg), manganese (Mn), and strontium (Sr) which are not listed, were below the MOE Table F Ontario Soil Background Criteria. There were no exceedences of the MOE Table A Effects Based Soil Criteria at this property.

These nickel and copper results fall within the concentration ranges of those reported historically. Previous MOE sampling of undisturbed soils approximately 1 km southwest, and 0.5 km southeast of St. John School, Stations 40 and 39, respectively, of the MOE Sudbury 2000 Report for the City of Greater Sudbury (MOE 2001), indicated nickel and copper surface soil concentration ranges of 37 to 130 and 24 to 200 ppm, respectively. Historic MOE sampling in the Sudbury area was of undeveloped surface soils which may not be representative of the materials sampled on this property.

Table B2.2.18: Concentration of 13 Elements in Soil in µg/g Collected at St. John, 181 William Street, Garson - 2001																
Map ID	Station	Sample Number	Soil Depth	Sb	As	Ba	Cd	Cr	Co	Cu	Pb	Mo	Ni	Se	V	Zn
Area A gravel	5037276	14415	0 - 5	< 0.8	8	27	< 0.8	27	8	57	10	< 1.5	68	< 1	29	28
		14416	0 - 5	< 0.8	9	25	< 0.8	26	9	59	10	< 1.5	73	< 1	30	28
Area B gravel	5037277	14417	0 - 5	< 0.8	7	29	< 0.8	24	7	43	7	< 1.5	62	< 1	26	25
		14418	0 - 5	< 0.8	6	29	< 0.8	24	8	51	7	< 1.5	71	< 1	24	24
Area C sand	5037278	14419	0 - 15	< 0.8	< 5	19	< 0.8	20	5	12	2	< 1.5	18	< 1	23	16
Table F (results in bold)				1.0	14	190	1.0	67	19	56	55	2.5	43	1.4	91	150
Table A (results in bold and underlined)				13	20	750	12	750	40	225	200	5.0	150	10	200	600
< - less than the Method Detection Limit.																
Al, Ca, Fe, Mg, Mn, and Sr results can be found in Table 4.1.																

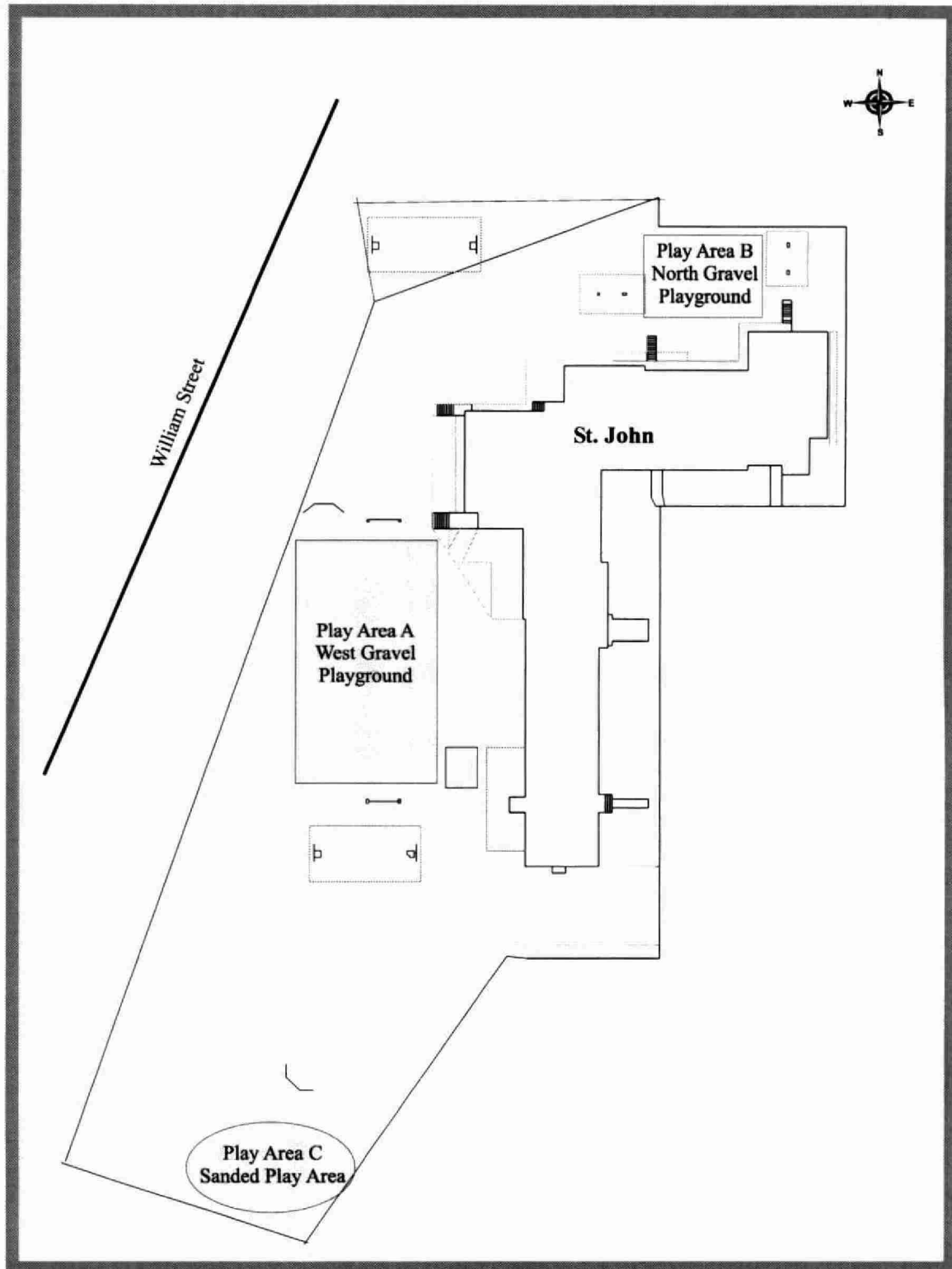


Figure B2.2.18: St. John Sampling Locations - 2001.

2.2.19 St. Kevin (Bishop Alexander C.C.S.S.) - Sudbury Catholic District School Board 3075 River Road, Val Caron

St. Kevin School was sampled on July 23, 2001 and is now the temporary location of Bishop Alexander C.C.S.S. within the Sudbury Catholic District School Board. A permanent location for this school has been found at St. Anne (2.2.8) and this location has since been closed. Figure B2.2.19 details the sampling locations at this property. Samples were taken from two areas on the school property. Area A corresponds to the gravel baseball diamond on the east side of the property. Area B corresponds to the gravel playground on the north side of the school building. Due to the constant mixing of the gravel and the homogenous nature of the gravel areas, all samples from this property were collected using hand trowels to represent the 0-5 cm depth. There were not any other play areas to sample at this property. All data were compared with the MOE Table F Ontario Soil Background Criteria and Table A Effects Based Soil Criteria (MOE 1997).

Nickel (Ni), and copper (Cu) concentrations were elevated above the MOE Table F Ontario Soil Background Criteria for all samples collected from this property. The highest nickel and copper concentrations, 92 and 82 ppm, respectively, were found in the north gravel playground samples. All other metals listed, as well as aluminum (Al), calcium (Ca), iron (Fe), magnesium (Mg), manganese (Mn), and strontium (Sr) which are not listed, were below the MOE Table F Ontario Soil Background Criteria. There were no exceedences of the MOE Table A Effects Based Soil Criteria at this property.

These nickel and copper results fall within the concentration ranges of those reported historically. Previous MOE sampling of undisturbed soils approximately 2 km northwest, 2 km southwest, and 3 km northeast of St. Kevin (Bishop Alexander C.C.S.S.) School, Stations 15, 340, and 344, respectively, of the MOE Sudbury 2000 Report for the City of Greater Sudbury (MOE 2001), indicated nickel and copper surface soil concentration ranges of 66 to 140 and 57 to 130 ppm, respectively. Historic MOE sampling in the Sudbury area was of undeveloped surface soils which may not be representative of the materials sampled on this property.

Table B2.2.19: Concentration of 13 Elements in Soil in µg/g Collected at St. Kevin (Bishop Alexander C.C.S.S.), 3075 River Road, Val Caron - 2001																
Map ID	Station	Sample Number	Soil Depth	Sb	As	Ba	Cd	Cr	Co	Cu	Pb	Mo	Ni	Se	V	Zn
Area A gravel	5037288	14774	0 - 5	< 0.8	< 5	31	< 0.8	42	12	59	12	< 1.5	57	< 1	38	38
		14775	0 - 5	< 0.8	< 5	29	< 0.8	40	15	64	10	< 1.5	63	< 1	38	39
Area B gravel	5037289	14776	0 - 5	< 0.8	< 5	37	< 0.8	42	10	71	14	< 1.5	68	< 1	39	37
		14777	0 - 5	< 0.8	< 5	36	< 0.8	44	11	82	12	< 1.5	92	< 1	46	38
Table F (results in bold)				1.0	14	190	1.0	67	19	56	55	2.5	43	1.4	91	150
Table A (results in bold and underlined)				13	20	750	12	750	40	225	200	5.0	150	10	200	600
< - less than the Method Detection Limit.																
Al, Ca, Fe, Mg, Mn, and Sr results can be found in Table 4.1.																

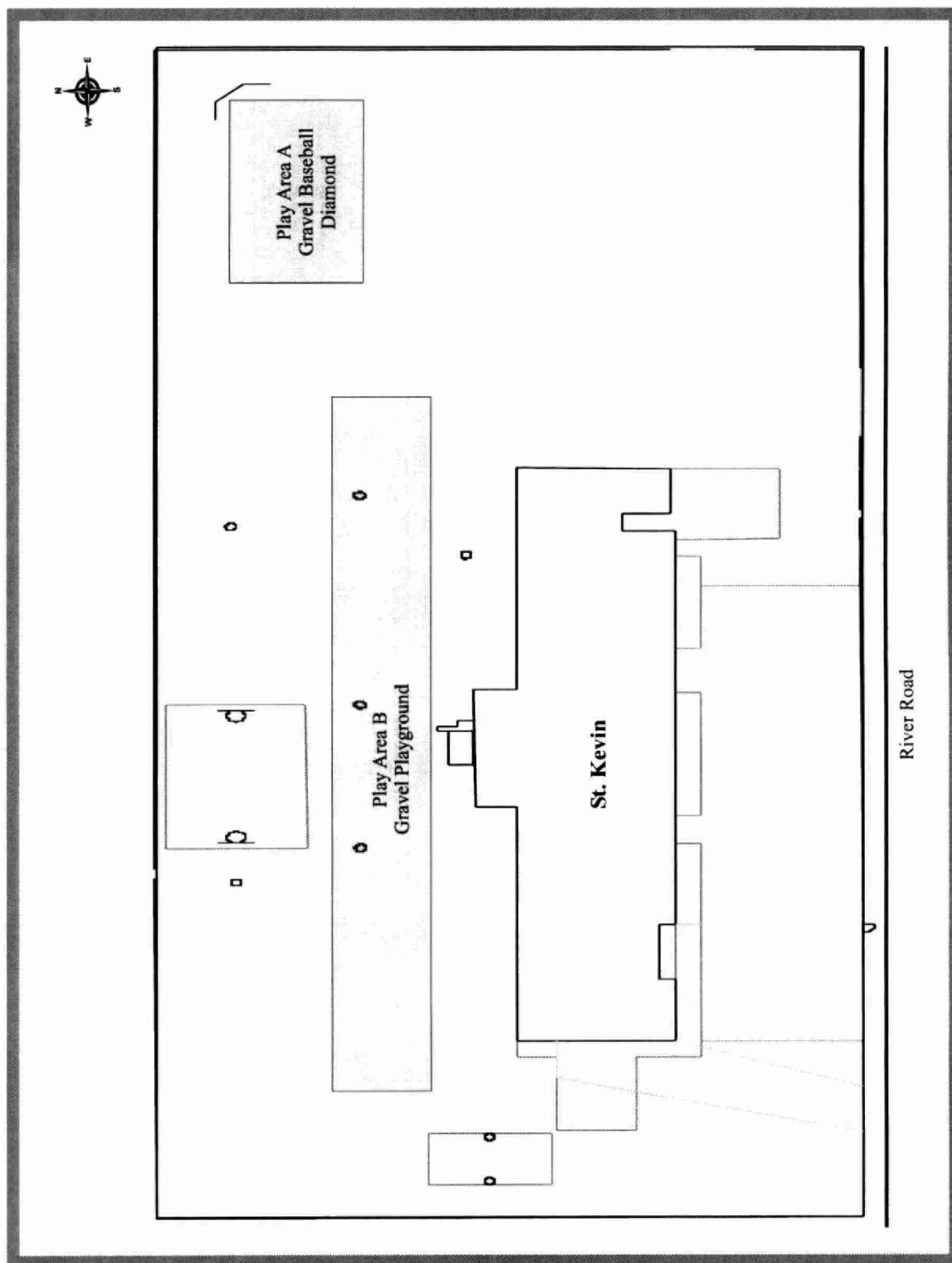


Figure B2.2.19: St. Kevin (Bishop Alexander C.C.S.S.) Sampling Locations - 2001.

2.2.20 St. Mary - Sudbury Catholic District School Board 26 Meehan Avenue, Capreol

St. Mary School was sampled on July 20, 2001. Figure B2.2.20 details the sampling locations at this property. Samples were taken from one area on the school property. Area A corresponds to the gravel playground on the south side of the school. Due to the constant mixing of the gravel and the homogenous nature of the gravel areas, all samples from this property were collected using hand trowels to represent the 0-5 cm depth. There were not any other play areas to sample at this property. All data were compared with the MOE Table F Ontario Soil Background Criteria and Table A Effects Based Soil Criteria (MOE 1997).

Nickel (Ni), and copper (Cu) concentrations were elevated above the MOE Table F Ontario Soil Background Criteria for all samples collected from this property. The highest nickel and copper concentrations found were 72 and 97 ppm, respectively. All other metals listed, as well as aluminum (Al), calcium (Ca), iron (Fe), magnesium (Mg), manganese (Mn), and strontium (Sr) which are not listed, were below the MOE Table F Ontario Soil Background Criteria. There were no exceedences of the MOE Table A Effects Based Soil Criteria at this property.

These nickel and copper results are lower than those reported historically. Previous MOE sampling of undisturbed soils approximately 2 km north and 0.5 km south of St. Mary School, Stations 352 and 351, respectively, of the MOE Sudbury 2000 Report for the City of Greater Sudbury (MOE 2001), indicated nickel and copper surface soil concentration ranges of 130 to 330 and 110 to 300 ppm, respectively. Historic MOE sampling in the Sudbury area was of undeveloped surface soils which may not be representative of the materials sampled on this property.

Table B2.2.20: Concentration of 13 Elements in Soil in µg/g Collected at St. Mary, 26 Meehan Avenue, Capreol - 2001																
Map ID	Station	Sample Number	Soil Depth	Sb	As	Ba	Cd	Cr	Co	Cu	Pb	Mo	Ni	Se	V	Zn
Area A gravel	5037352	14582	0 - 5	< 0.8	6	32	< 0.8	27	8	69	22	< 1.5	69	< 1	34	46
		14583	0 - 5	< 0.8	8	31	< 0.8	26	7	97	25	< 1.5	72	< 1	33	48
Table F (results in bold)				1.0	14	190	1.0	67	19	56	55	2.5	43	1.4	91	150
Table A (results in bold and underlined)				13	20	750	12	750	40	225	200	5.0	150	10	200	600
< - less than the Method Detection Limit.																
Al, Ca, Fe, Mg, Mn, and Sr results can be found in Table 4.1.																

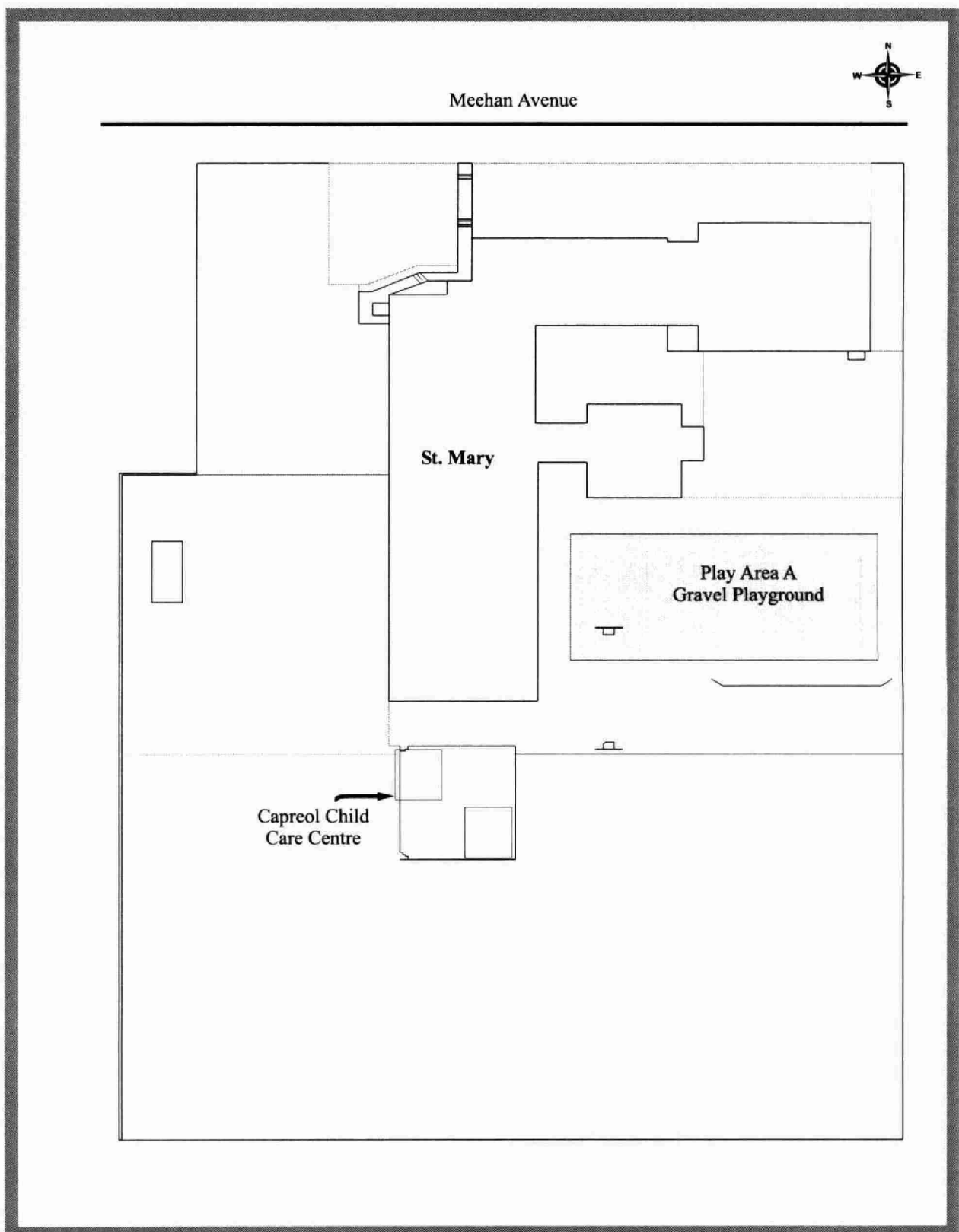


Figure B2.2.20: St. Mary School Sampling Locations - 2001.

2.2.21 St. Michael - Sudbury Catholic District School Board 41 Samson Street, Sudbury

St. Michael School was sampled on July 5, 2001. Figure B2.2.21 details the sampling locations at this property. Samples were taken from one area on the school property. Area A corresponds to the gravel playground on the west side of the school building. Due to the constant mixing of the gravel and the homogenous nature of the gravel areas, all samples from this property were collected using hand trowels to represent the 0-5 cm depth. There were not any other play areas to sample at this property. All data were compared with the MOE Table F Ontario Soil Background Criteria and Table A Effects Based Soil Criteria (MOE 1997).

Nickel (Ni), and copper (Cu) concentrations were elevated above the MOE Table F Ontario Soil Background Criteria for all samples collected from this property. The highest nickel and copper concentrations found were 140 and 120 ppm, respectively. All other metals listed, as well as aluminum (Al), calcium (Ca), iron (Fe), magnesium (Mg), manganese (Mn), and strontium (Sr) which are not listed, were below the MOE Table F Ontario Soil Background Criteria. There were no exceedences of the MOE Table A Effects Based Soil Criteria at this property.

These nickel and copper results fall within the lower end of the concentration ranges of those reported historically. Previous MOE sampling of undisturbed soils approximately 0.5 km south of St. Michael School, Station 74 of the MOE Sudbury 2000 Report for the City of Greater Sudbury (MOE 2001), indicated nickel and copper surface soil concentration ranges of 145 to 790 and 220 to 740 ppm, respectively. Historic MOE sampling in the Sudbury area was of undeveloped surface soils which may not be representative of the materials sampled on this property.

Table B2.2.21: Concentration of 13 Elements in Soil in µg/g Collected at St. Michael, 41 Samson Street, Sudbury - 2001																
Map ID	Station	Sample Number	Soil Depth	Sb	As	Ba	Cd	Cr	Co	Cu	Pb	Mo	Ni	Se	V	Zn
Area A gravel	5037083	14132	0 - 5	< 0.8	< 5	26	< 0.8	29	11	120	11	< 1.5	130	< 1	30	32
		14133	0 - 5	< 0.8	< 5	29	< 0.8	29	11	120	11	< 1.5	140	< 1	27	65
Table F (results in bold)				1.0	14	190	1.0	67	19	56	55	2.5	43	1.4	91	150
Table A (results in bold and underlined)				13	20	750	12	750	40	225	200	5.0	150	10	200	600
< - less than the Method Detection Limit.																
Al, Ca, Fe, Mg, Mn, and Sr results can be found in Table 4.1.																

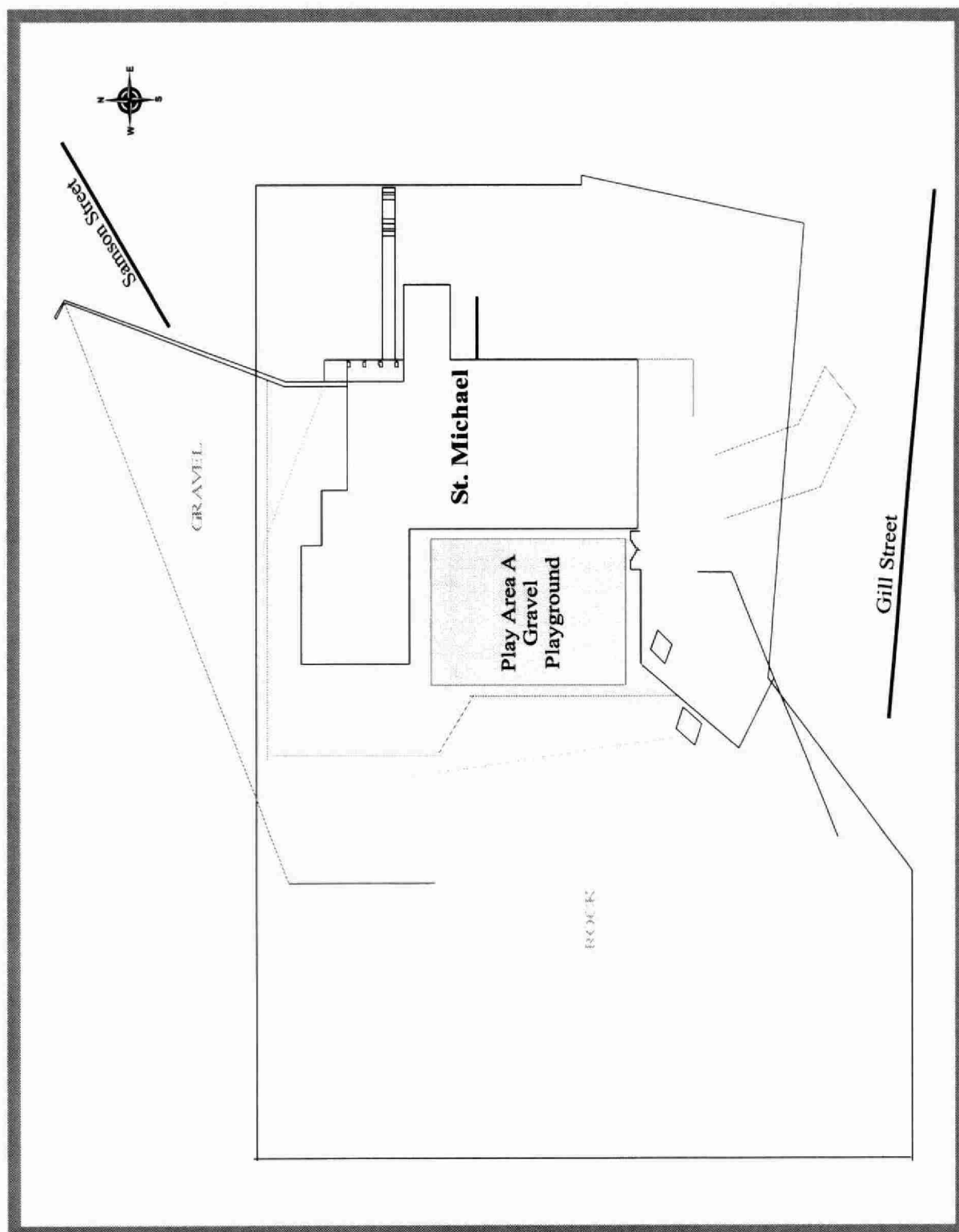


Figure B2.2.21: St. Michael Sampling Locations - 2001.

2.2.22 St. Paul - Sudbury Catholic District School Board

1 Edward Avenue North, Coniston

St. Paul School was sampled on July 22, 2001. Figure B2.2.22 details the sampling locations at this property. Samples were taken from two areas on the school property. Area A corresponds to the gravel playground on the east side of the school building. Area B corresponds to the sand collected from the landing area of the long jump pit. Due to the constant mixing of the sand and the homogenous nature of the sanded area, sand samples were collected using hand trowels to represent the 0-15 cm depth. Hand trowels were also used to collect the gravel samples to represent the 0-5 cm depth. All data were compared with the MOE Table F Ontario Soil Background Criteria and Table A Effects Based Soil Criteria (MOE 1997).

Metal concentrations were not elevated in the sand collected from the landing area of the long jump pit. The sand present is not likely native to the school property and is believed to have been introduced when the play area was constructed. Thus the sand was not expected to have elevated metal concentrations. Nickel (Ni), and copper (Cu) concentrations were elevated above the MOE Table F Ontario Soil Background Criteria for both gravel playground samples. The highest nickel and copper concentrations found were 120 and 100 ppm, respectively. All other metals listed, as well as aluminum (Al), calcium (Ca), iron (Fe), magnesium (Mg), manganese (Mn), and strontium (Sr) which are not listed, were below the MOE Table F Ontario Soil Background Criteria. There were no exceedences of the MOE Table A Effects Based Soil Criteria at this property.

These nickel and copper results fall within the lower end of the concentration ranges of those reported historically. Previous MOE sampling of undisturbed soils approximately 1 km southwest, 0.8 km northeast, and 1 km southwest of St. Paul School, Stations 81, 49, and 48, respectively, of the MOE Sudbury 2000 Report for the City of Greater Sudbury (MOE 2001), indicated nickel and copper surface soil concentration ranges of 70 to 970 and 54 to 780 ppm, respectively. Historic MOE sampling in the Sudbury area was of undeveloped surface soils which may not be representative of the materials sampled on this property.

Table B2.2.22: Concentration of 13 Elements in Soil in µg/g Collected at St. Paul, 1 Edward Avenue North, Coniston - 2001																
Map ID	Station	Sample Number	Soil Depth	Sb	As	Ba	Cd	Cr	Co	Cu	Pb	Mo	Ni	Se	V	Zn
Area A gravel	5037263	14752	0 - 5	< 0.8	6	43	< 0.8	35	14	99	12	< 1.5	120	< 1	34	42
		14753	0 - 5	< 0.8	6	45	< 0.8	43	14	100	14	< 1.5	120	< 1	32	46
Area B sand	5037264	14754	0 - 15	< 0.8	< 5	26	< 0.8	18	6	15	2	< 1.5	17	< 1	23	13
Table F (results in bold)				1.0	14	190	1.0	67	19	56	55	2.5	43	1.4	91	150
Table A (results in bold and underlined)				13	20	750	12	750	40	225	200	5.0	150	10	200	600
< - less than the Method Detection Limit.																
Al, Ca, Fe, Mg, Mn, and Sr results can be found in Table 4.1.																

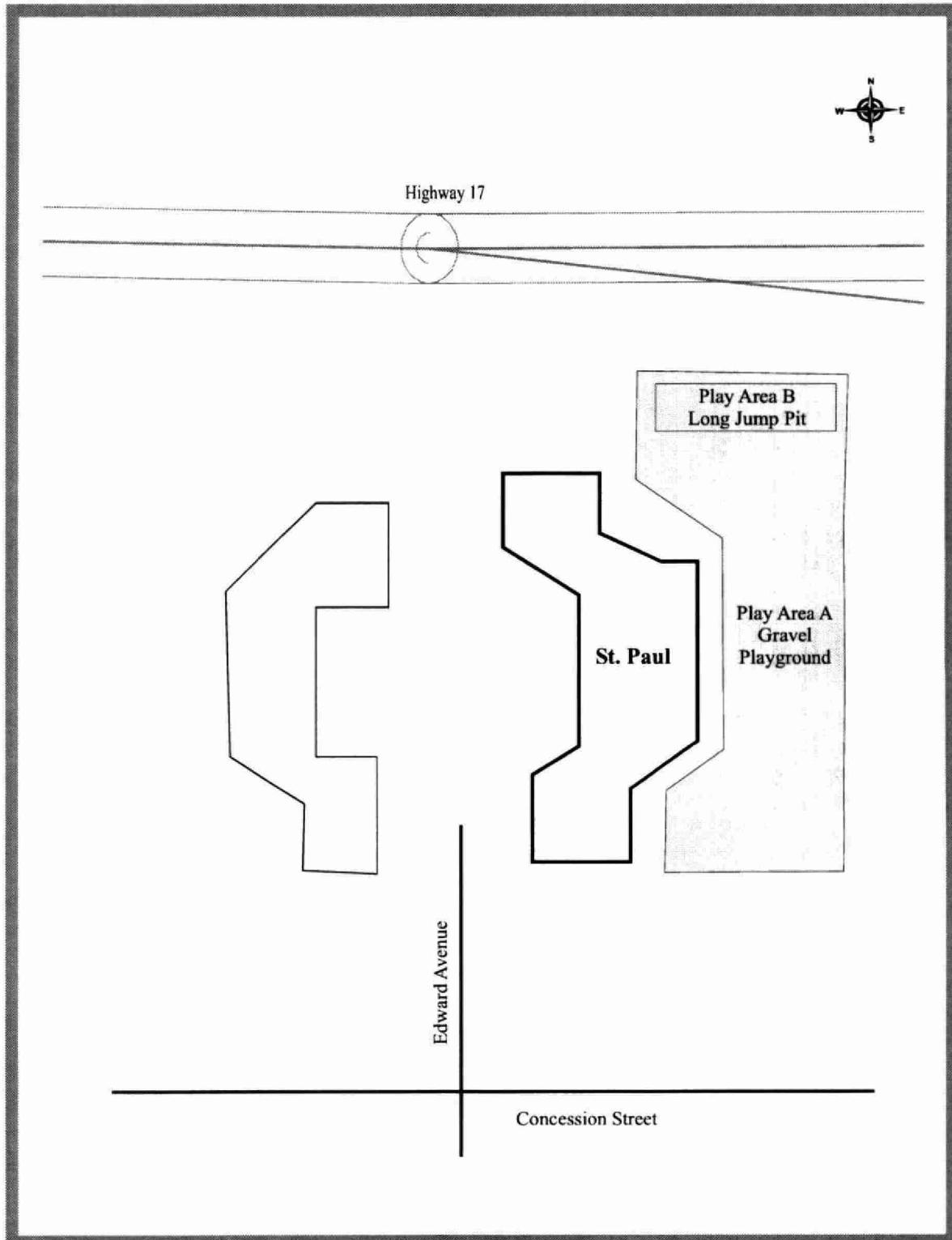


Figure B2.2.22: St. Paul Sampling Locations - 2001.

2.2.23 St. Raphael - Sudbury Catholic District School Board 1096 Dublin Street, Sudbury

St. Raphael School, including Cedar Park Daycare #2, was sampled on July 18, 2001. Figure B2.2.23 details the sampling locations at this property. Samples were taken from one area on the school property. Area A corresponds to the gravel playground on the west side of the school building. Due to the constant mixing of the gravel and the homogenous nature of the gravel areas, all samples from this property were collected using hand trowels to represent the 0-5 cm depth. There were not any other play areas to sample on this property. All data were compared with the MOE Table F Ontario Soil Background Criteria and Table A Effects Based Soil Criteria (MOE 1997).

Nickel (Ni), and copper (Cu) concentrations were elevated above the MOE Table F Ontario Soil Background Criteria for the gravel playground samples. The highest nickel and copper concentrations found were 96 and 93 ppm, respectively. All other metals listed, as well as aluminum (Al), calcium (Ca), iron (Fe), magnesium (Mg), manganese (Mn), and strontium (Sr) which are not listed, were below the MOE Table F Ontario Soil Background Criteria. There were no exceedences of the MOE Table A Effects Based Soil Criteria at this property.

These nickel and copper results fall within the lower end of the concentration ranges of those reported historically. Previous MOE sampling of undisturbed soils approximately 0.2 km east and 1 km southwest of St. Raphael School, Stations 86 and 85, respectively, of the MOE Sudbury 2000 Report for the City of Greater Sudbury (MOE 2001), indicated nickel and copper surface soil concentration ranges of 56 to 540 and 35 to 330 ppm, respectively. Historic MOE sampling in the Sudbury area was of undeveloped surface soils which may not be representative of the materials sampled on this property.

Table B2.2.23: Concentration of 13 Elements in Soil in µg/g Collected at St. Raphael, 1096 Dublin Street, Sudbury - 2001																	
Map ID	Station	Sample Number	Soil Depth	Sb	As	Ba	Cd	Cr	Co	Cu	Pb	Mo	Ni	Se	V	Zn	
Area A gravel	5037193	14460	0 - 5	< 0.8	< 5	34	< 0.8	35	12	93	14	< 1.5	96	< 1	36	77	
		14461	0 - 5	< 0.8	< 5	30	< 0.8	26	8	42	8	< 1.5	47	< 1	28	27	
Table F (results in bold)				1.0	14	190	1.0	67	19	56	55	2.5	43	1.4	91	150	
Table A (results in bold and underlined)				13	20	750	12	750	40	225	200	5.0	150	10	200	600	
< - less than the Method Detection Limit.																	
Al, Ca, Fe, Mg, Mn, and Sr results can be found in Table 4.1.																	

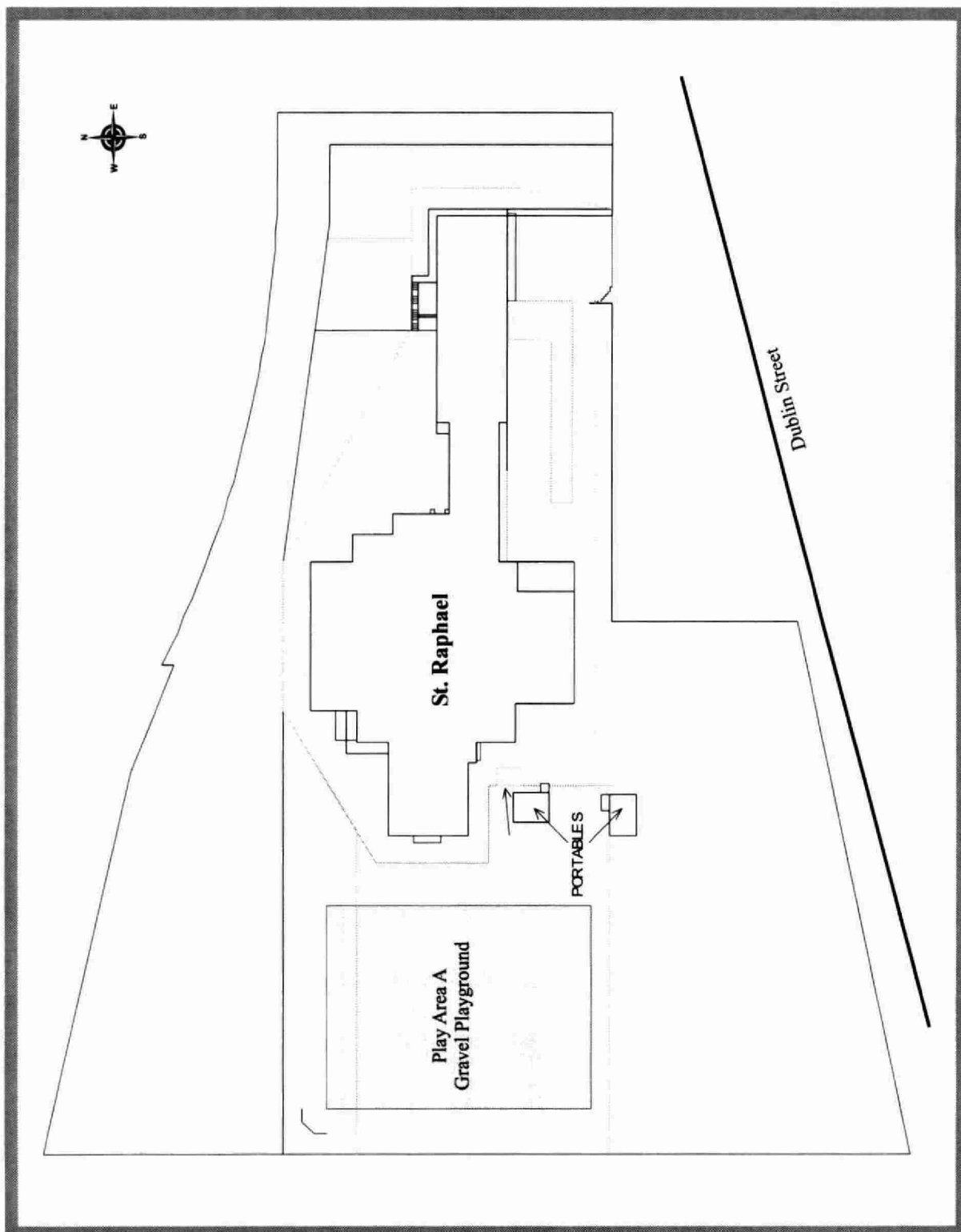


Figure B2.2.23: St. Raphael Sampling Locations - 2001.

2.2.24 St. Theresa - Sudbury Catholic District School Board 56 Walford Road, Sudbury

St. Theresa School was sampled on July 5, 2001. Figure B2.2.24 details the sampling locations at this property. Samples were taken from four areas on the school property. Areas A, B and C correspond to sand samples collected from below the play structures. Area D corresponds to the gravel playground to the north and east side of the school building. Due to the constant mixing of the sand and the homogenous nature of the sanded area, sand samples were collected using hand trowels to represent the 0-15 cm depth. Hand trowels were also used to collect the gravel samples to represent the 0-5 cm depth. All data were compared with the MOE Table F Ontario Soil Background Criteria and Table A Effects Based Soil Criteria (MOE 1997).

Metal concentrations were not elevated in the sand beneath the play structures. The sand present is not likely native to the school property and is believed to have been introduced when the sanded play areas were constructed. Thus the sand was not expected to have elevated metal concentrations. Nickel (Ni), and copper (Cu) concentrations were elevated above the MOE Table F Ontario Soil Background Criteria for the gravel playground samples. The highest nickel and copper concentrations found were 110 and 97 ppm, respectively. All other metals listed, as well as aluminum (Al), calcium (Ca), iron (Fe), magnesium (Mg), manganese (Mn), and strontium (Sr) which are not listed, were below the MOE Table F Ontario Soil Background Criteria. There were no exceedences of the MOE Table A Effects Based Soil Criteria at this property.

These nickel and copper results are lower than those reported historically. Previous MOE sampling of undisturbed soils approximately 0.7 km southwest and 1.5 km northeast of St. Theresa School, Stations 364 and 74, respectively, of the MOE Sudbury 2000 Report for the City of Greater Sudbury (MOE 2001), indicated nickel and copper surface soil concentration ranges of 145 to 790 and 220 to 740 ppm, respectively. Historic MOE sampling in the Sudbury area was of undeveloped surface soils which may not be representative of the materials sampled on this property.

Table B2.2.24: Concentration of 13 Elements in Soil in µg/g Collected at St. Theresa, 56 Walford Road, Sudbury - 2001																
Map ID	Station	Sample Number	Soil Depth	Sb	As	Ba	Cd	Cr	Co	Cu	Pb	Mo	Ni	Se	V	Zn
Area A sand	5037050	14106	0 - 15	< 0.8	< 5	21	< 0.8	28	7	18	3	< 1.5	21	< 1	31	16
Area B sand	5037051	14107	0 - 15	< 0.8	< 5	20	< 0.8	28	7	17	3	< 1.5	21	< 1	26	15
Area C sand	5037052	14108	0 - 15	< 0.8	< 5	21	< 0.8	29	7	20	3	< 1.5	24	< 1	29	18
Area D gravel	5037053	14109	0 - 5	< 0.8	< 5	28	< 0.8	34	15	97	9	< 1.5	110	< 1	29	34
		14110	0 - 5	< 0.8	< 5	28	< 0.8	36	17	97	9	< 1.5	110	< 1	30	31
Table F (results in bold)				1.0	14	190	1.0	67	19	56	55	2.5	43	1.4	91	150
Table A (results in bold and underlined)				13	20	750	12	750	40	225	200	5.0	150	10	200	600
< - less than the Method Detection Limit.				Al, Ca, Fe, Mg, Mn, and Sr results can be found in Table 4.1.												

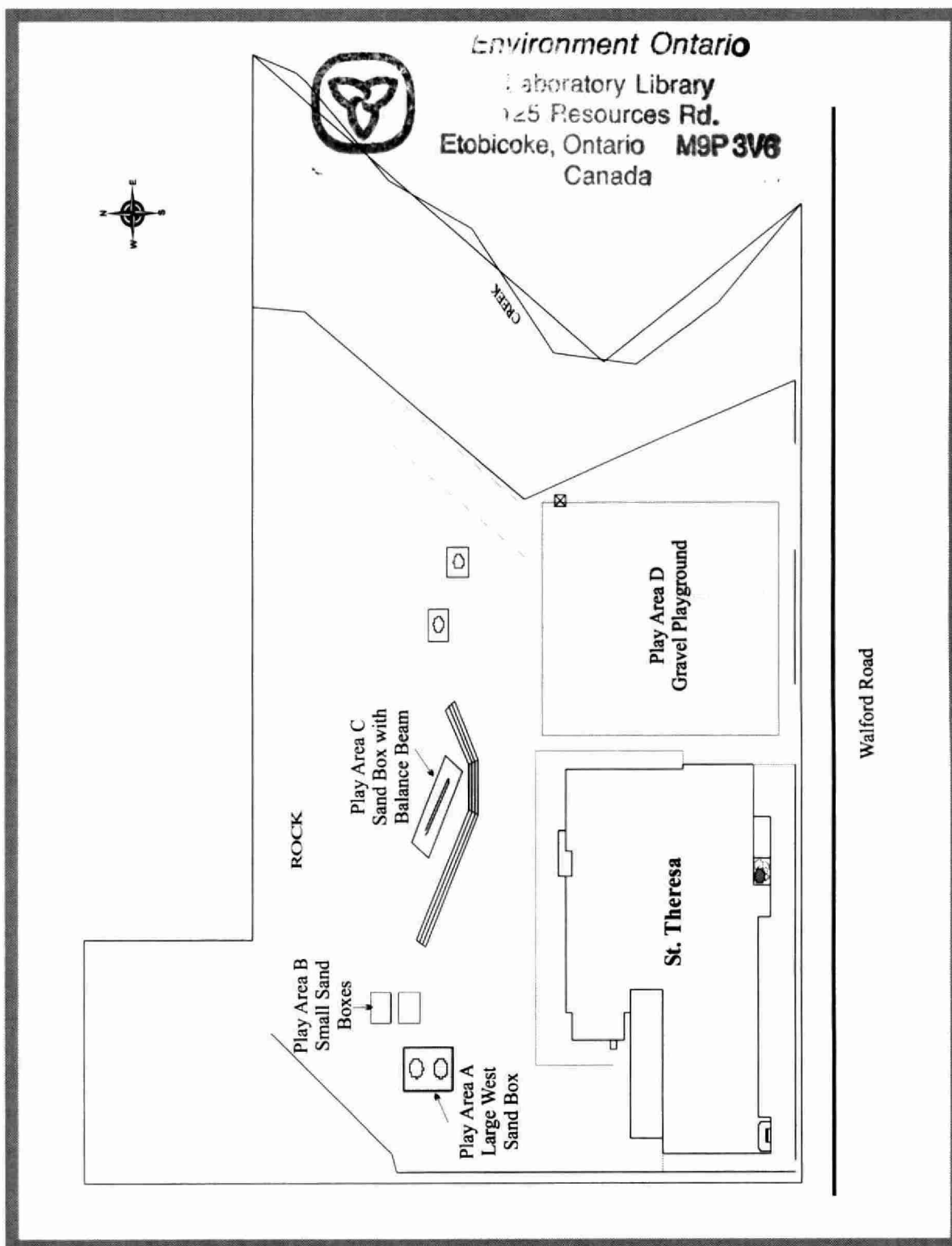


Figure B2.2.24: St. Theresa Sampling Locations - 2001.

2.2.25 St. Thomas (formerly) - Sudbury Catholic District School Board 504 St. Raphael Street, Sudbury

St. Thomas School was sampled on July 5, 2001 and has since been sold. Figure B2.2.25 details the sampling locations at this property. Samples were taken from four areas on the school property. Areas A and B correspond to sand samples collected from below the south and north play structures, respectively. Area C corresponds to the gravel baseball diamond infield. Area D corresponds to the gravel playground to the northeast side of the school building. Due to the constant mixing of the sand and the homogenous nature of the sanded areas, sand samples were collected using hand trowels to represent the 0-15 cm depth. Hand trowels were also used to collect the gravel samples to represent the 0-5 cm depth. All data were compared with the MOE Table F Ontario Soil Background Criteria and Table A Effects Based Soil Criteria (MOE 1997).

Metal concentrations were not elevated in the sand beneath the play structures. The sand present is not likely native to the school property and is believed to have been introduced when the sanded play areas were constructed. Thus the sand was not expected to have elevated metal concentrations. Nickel (Ni), and copper (Cu) concentrations were elevated above the MOE Table F Ontario Soil Background Criteria for all gravel samples. Cobalt (Co) and zinc (Zn) concentrations were also elevated above the MOE Table F Ontario Soil Background Criteria at selected sites. The highest nickel, copper, and cobalt concentrations, 190, 140, and 23 ppm, respectively, were found in a sample from the gravel playground, while the highest zinc concentration, 200 ppm, was found in a sample from the baseball diamond infield. All other metals listed, as well as aluminum (Al), calcium (Ca), iron (Fe), magnesium (Mg), manganese (Mn), and strontium (Sr) which are not listed, were below the MOE Table F Ontario Soil Background Criteria. There was only one exceedence of the MOE Table A Effects Based Soil Criteria for nickel at this property.

Table B2.2.25: Concentration of 13 Elements in Soil in µg/g Collected at St. Thomas (formerly), 504 St. Raphael Street, Sudbury - 2001																
Map ID	Station	Sample Number	Soil Depth	Sb	As	Ba	Cd	Cr	Co	Cu	Pb	Mo	Ni	Se	V	Zn
Area A sand	5037094	14191	0 - 15	< 0.8	< 5	18	< 0.8	30	7	21	3	< 1.5	27	< 1	25	25
Area B sand	5037095	14192	0 - 15	< 0.8	< 5	19	< 0.8	29	7	22	3	< 1.5	23	< 1	32	23
Area C gravel	5037096	14193	0 - 5	< 0.8	< 5	27	< 0.8	24	11	100	11	< 1.5	130	< 1	25	200
		14194	0 - 5	< 0.8	< 5	28	< 0.8	24	11	100	11	< 1.5	130	< 1	24	150
Area D gravel	5037097	14195	0 - 5	< 0.8	< 5	31	< 0.8	32	22	130	11	< 1.5	150	< 1	30	40
		14196	0 - 5	< 0.8	5	42	< 0.8	35	23	140	12	< 1.5	190	< 1	33	39
Table F (results in bold)				1.0	14	190	1.0	67	19	56	55	2.5	43	1.4	91	150
Table A (results in bold and underlined)				13	20	750	12	750	40	225	200	5.0	150	10	200	600
< - less than the Method Detection Limit.																
Al, Ca, Fe, Mg, Mn, and Sr results can be found in Table 4.1.																

These nickel and copper results are lower than those reported historically. The cobalt concentrations found are similar to those reported previously, while the zinc concentration is much higher than historically found. Previous MOE sampling of undisturbed soils approximately 0.5 km southeast and 2 km northeast of St. Thomas (formerly) School, Stations 75 and 411, respectively, of the MOE Sudbury 2000 Report for the City of Greater Sudbury (MOE 2001), indicated nickel and copper surface soil concentration ranges of 380 to 980 and 340 to 820 ppm, respectively. At the same historic sites, the cobalt surface soil concentration range was 17 to 38 ppm, while the highest zinc concentration previously reported was 66 ppm. Historic MOE sampling in the Sudbury area was of undeveloped surface soils which may not be representative of the materials sampled on this property.

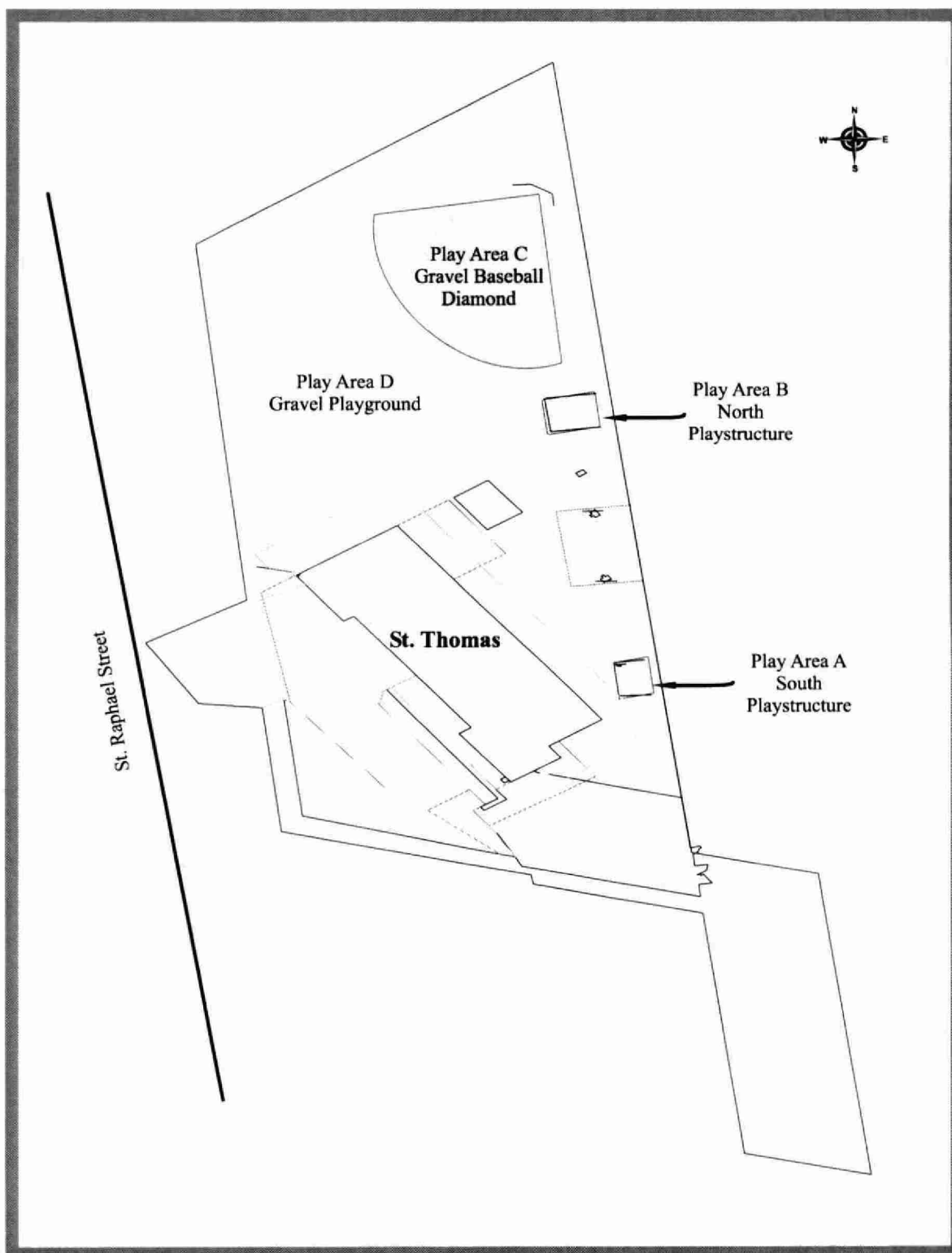


Figure B2.2.25: St. Thomas (formerly) Sampling Locations - 2001.

2.3 Le Conseil Scolaire du District de Grand Nord de L'Ontario

As of June 2001, Le Conseil Scolaire du District de Grand Nord de L'Ontario provided the MOE with a list of 8 school properties. MOE representatives were able to collect samples from all properties during the summer of 2001. E. P. Pavillon-de-l'avenir is on the same property as Chelmsford Valley District School in the Rainbow District School Board. For each school there is a section below describing the results, a table with a subset of the results, and a map showing the sampling locations. The maps were produced from field notes. They are not to scale and the locations of the buildings, boundaries and sampling sites shown are only approximate. The schools are listed alphabetically. Complete results for each school are listed in Table 4.1 along with the results from the other school boards.

Table B2.3: Number of Le Conseil Scolaire du District de Grand Nord de L'Ontario school in which at least one sample exceed MOE soil criteria.

Number of Schools	Nickel Exceedences		Copper Exceedences		Cobalt Exceedences		Arsenic Exceedences		Lead Exceedences	
	Table F	Table A	Table F	Table A	Table F	Table A	Table F	Table A	Table F	Table A
8	5	1	1	0	0	0	0	0	1	0

In order to fit all of the results data onto one table the standard chemical abbreviations had to be used. To interpret the tables properly, the chart below can be used to translate the abbreviations.

Chemical Symbols used in Results Tables				
Al - aluminum	Sb - antimony	As - arsenic	Ba - barium	Be - beryllium
Cd - cadmium	Ca - calcium	Cr - chromium	Co - cobalt	Cu - copper
Fe - iron	Pb - lead	Mg - magnesium	Mn - manganese	Mo - molybdenum
Ni - nickel	Se - selenium	Sr - strontium	V - vanadium	Zn - zinc

**2.3.1 E.P. Pavillon-de-l'avenir - Conseil Scolaire du District de Grand Nord de L'Ontario
370 Cote Avenue, Chelmsford**

See Chelmsford Valley District School in Section 2.1.7 for sampling results and map of sampling locations for E.P. Pavillon-de-l'avenir.

2.3.2 E.P. Franco Nord - Conseil Scolaire du District de Grand Nord de L'Ontario 178 Avenue Junction, Sudbury

E.P. Franco Nord was sampled on July 19, 2001. Figure B2.3.2 details the sampling locations at this property. Samples were taken from four areas on the school property. Area A corresponds to the grassed play area on the east side of the property. Areas B and C correspond to the sand samples that were taken below the north and south play structures, respectively. Area D corresponds to the gravel playground. Due to the constant mixing of sand and the homogenous nature of the sanded areas, sand samples were collected with hand trowels to represent the 0-15 cm depth. Hand trowels were also used to collect the gravel samples to represent the 0-5 cm depth. All data were compared with the MOE Table F Ontario Soil Background Criteria and Table A Effects Based Soil Criteria (MOE 1997).

Metal concentrations were not elevated in the sand beneath the play structures. The sand present is not likely native to the school property and is believed to have been introduced when the sanded play areas were constructed. Thus the sand was not expected to have elevated metal concentrations. Nickel (Ni) and copper (Cu) concentrations were elevated above the MOE Table F Ontario Soil Background Criteria in sample taken from the gravel playground. The highest nickel and copper concentrations found in these samples was 85 and 87 ppm, respectively. All other metals listed, as well as aluminum (Al), calcium (Ca), iron (Fe), magnesium (Mg), manganese (Mn), and strontium (Sr) which are not listed, were below the MOE Table F Ontario Soil Background Criteria. There were no exceedences of the MOE Table A Effects Based Soil Criteria at this property.

These soil results are lower than those reported historically. Previous MOE sampling of undisturbed soils approximately 1.5 km southeast of E.P. Franco Nord, Station 90 of the MOE Sudbury 2000 Report, for the City of Greater Sudbury (MOE 2001), indicated nickel and copper surface soil concentrations as high as 570 and 470 ppm, respectively. Historic MOE sampling in the Sudbury area was of undeveloped surface soils which may not be representative of the materials sampled on this property.

Table B2.3.2: Concentration of 13 Elements in Soil in µg/g Collected at E.P. Franco Nord, 178 Avenue Junction, Sudbury - 2001																
Map ID	Station	Sample Number	Soil Depth	Sb	As	Ba	Cd	Cr	Co	Cu	Pb	Mo	Ni	Se	V	Zn
Area A grass	5037361	14479	0 - 5	< 0.8	< 5	29	< 0.8	26	5	22	7	< 1.5	38	< 1	27	18
		14480	0 - 5	< 0.8	6	27	< 0.8	24	4	18	6	< 1.5	32	< 1	25	16
Area B sand	5037362	14481	0 - 15	< 0.8	< 5	22	< 0.8	25	7	22	7	< 1.5	19	< 1	39	27
Area C sand	5037363	14482	0 - 15	< 0.8	< 5	16	< 0.8	23	5	16	4	< 1.5	19	< 1	28	21
Area D gravel	5037364	14483	0 - 5	< 0.8	5	32	< 0.8	33	11	87	12	< 1.5	85	< 1	37	39
		14484	0 - 5	< 0.8	6	25	< 0.8	32	10	76	11	< 1.5	73	< 1	35	38
Table F (results in bold)				1.0	14	190	1.0	67	19	56	55	2.5	43	1.4	91	150
Table A (results in bold and underlined)				13	20	750	12	750	40	225	200	5.0	150	10	200	600
< - less than the Method Detection Limit.																
Al, Ca, Fe, Mg, Mn, and Sr results can be found in Table 4.1.																

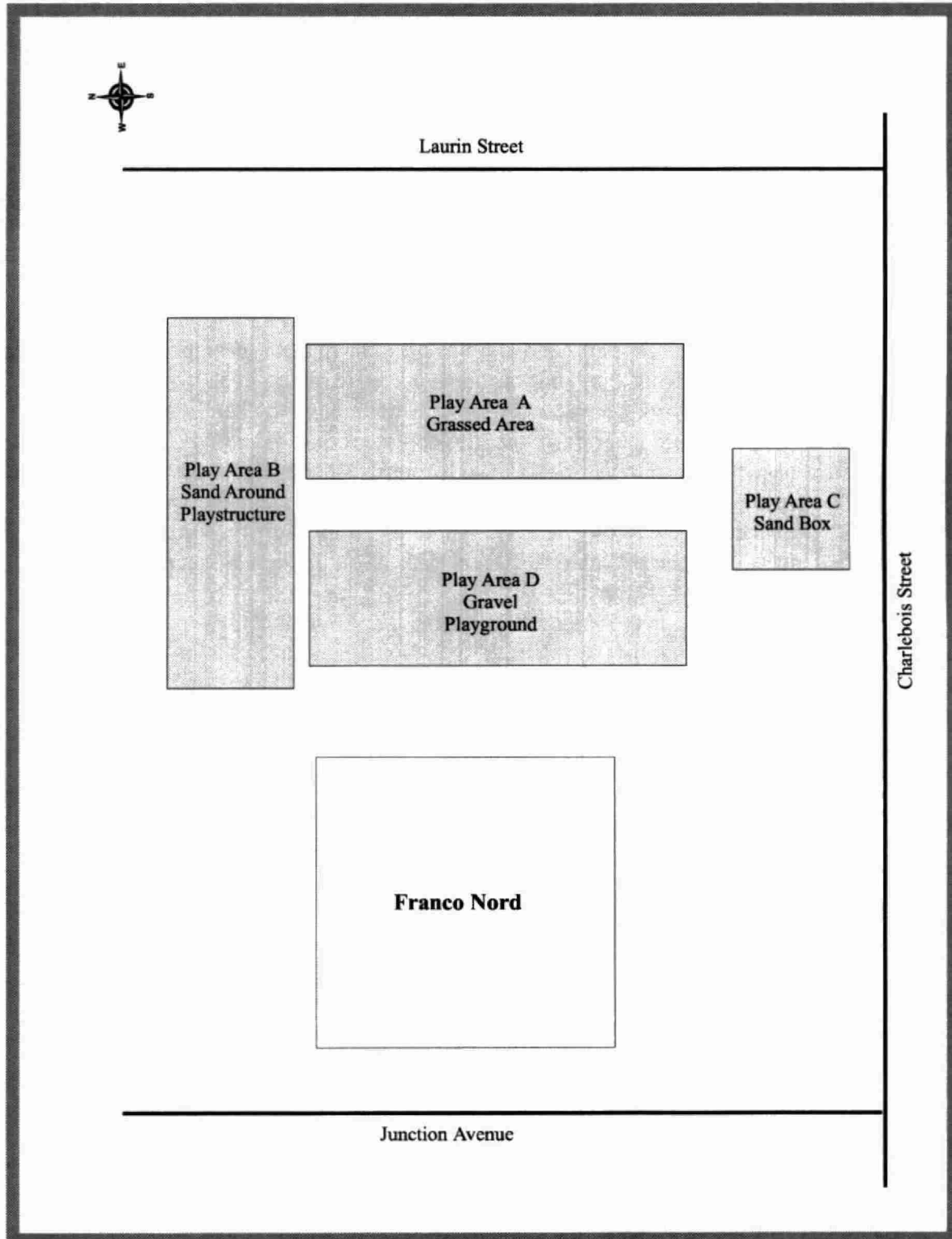


Figure B2.3.2: E.P. Franco Nord Sampling Locations - 2001.

2.3.3 E.P. Foyer Jeunesse - Conseil Scolaire du District de Grand Nord de L'Ontario 4752 Rue Notre Dame, Hanmer

E.P. Foyer Jeunesse, including Garderie Jardiniere Francophone, was sampled on July 20, 2001. Figure B2.3.3 details the sampling locations at this property. Samples were taken from four areas on the school property. Area A corresponds to sand samples that were collected from below the play structure on the south side of the school building. Area D corresponds to the sand samples taken from below the tether ball poles. Area B corresponds to gravel samples taken from the play area on the west side of the play structure (Area A). Due to the constant mixing of sand and the homogenous nature of the sanded areas, sand samples were collected with hand trowels to represent the 0-15 cm depth. Hand trowels were also used to collect the gravel samples to represent the 0-5 cm depth. Area C corresponds to the grassed area on the south side of the property. All data were compared with the MOE Table F Ontario Soil Background Criteria and Table A Effects Based Soil Criteria (MOE 1997).

Metal concentrations were not elevated in the sand beneath the play structure or the tether ball poles. The sand present is not likely native to the school property and is believed to have been introduced when the sanded play areas were constructed. Thus the sand was not expected to have elevated metal concentrations. None of the samples from this property were found to have metal concentrations above the MOE Table F Ontario Soil Background Criteria. In addition, aluminum (Al), calcium (Ca), iron (Fe), magnesium (Mg), manganese (Mn), and strontium (Sr) which are not listed, were below the MOE Table F Ontario Soil Background Criteria. There were no exceedences of the MOE Table A Effects Based Soil Criteria at this property.

These soil results are slightly lower than those reported historically. Previous MOE sampling of undisturbed soils approximately 2 km southeast of E.P. Foyer Jeunesse, Station 350 of the MOE Sudbury 2000 Report, for the City of Greater Sudbury (MOE 2001), indicated nickel and copper surface soil concentrations of 78 and 56 ppm, respectively. Historic MOE sampling in the Sudbury area was of undeveloped surface soils which may not be representative of the materials sampled on this property.

Table B2.3.3: Concentration of 13 Elements in Soil in µg/g Collected at E.P. Foyer Jeunesse at E.S. Hanmer, 4752 Rue Notre Dame, Hanmer - 2001																
Map ID	Station	Sample Number	Soil Depth	Sb	As	Ba	Cd	Cr	Co	Cu	Pb	Mo	Ni	Se	V	Zn
Area A sand	5037343	14602	0 - 15	< 0.8	< 5	16	< 0.8	24	6	13	2	< 1.5	21	< 1	26	17
		14603	0 - 15	< 0.8	< 5	18	< 0.8	28	6	16	3	< 1.5	25	< 1	33	19
Area B gravel	5037344	14604	0 - 5	< 0.8	< 5	40	< 0.8	43	10	55	9	< 1.5	40	< 1	42	40
		14605	0 - 5	< 0.8	< 5	40	< 0.8	43	10	49	10	< 1.5	38	< 1	42	37
Area C grass	5037345	14596	0 - 5	< 0.8	7	32	< 0.8	25	4	27	10	< 1.5	39	< 1	22	24
		14597	0 - 5	< 0.8	6	36	< 0.8	26	5	35	12	< 1.5	42	< 1	25	27
		14598	5 - 10	< 0.8	6	31	< 0.8	25	4	19	9	< 1.5	29	< 1	24	21
		14599	5 - 10	< 0.8	< 5	30	< 0.8	24	4	16	7	< 1.5	28	< 1	22	18
		14600	10 - 20	< 0.8	< 5	28	< 0.8	23	4	13	6	< 1.5	23	< 1	21	17
		14601	10 - 20	< 0.8	< 5	27	< 0.8	24	4	12	5	< 1.5	23	< 1	23	19
Area D sand	5037346	14606	0 - 15	< 0.8	< 5	22	< 0.8	24	6	16	2	< 1.5	39	< 1	30	16
Table F (results in bold)				1.0	14	190	1.0	67	19	56	55	2.5	43	1.4	91	150
Table A (results in bold and underlined)				13	20	750	12	750	40	225	200	5.0	150	10	200	600
< less than the Method Detection Limit.				Al, Ca, Fe, Mg, Mn, and Sr results can be found in Table 4.1.												

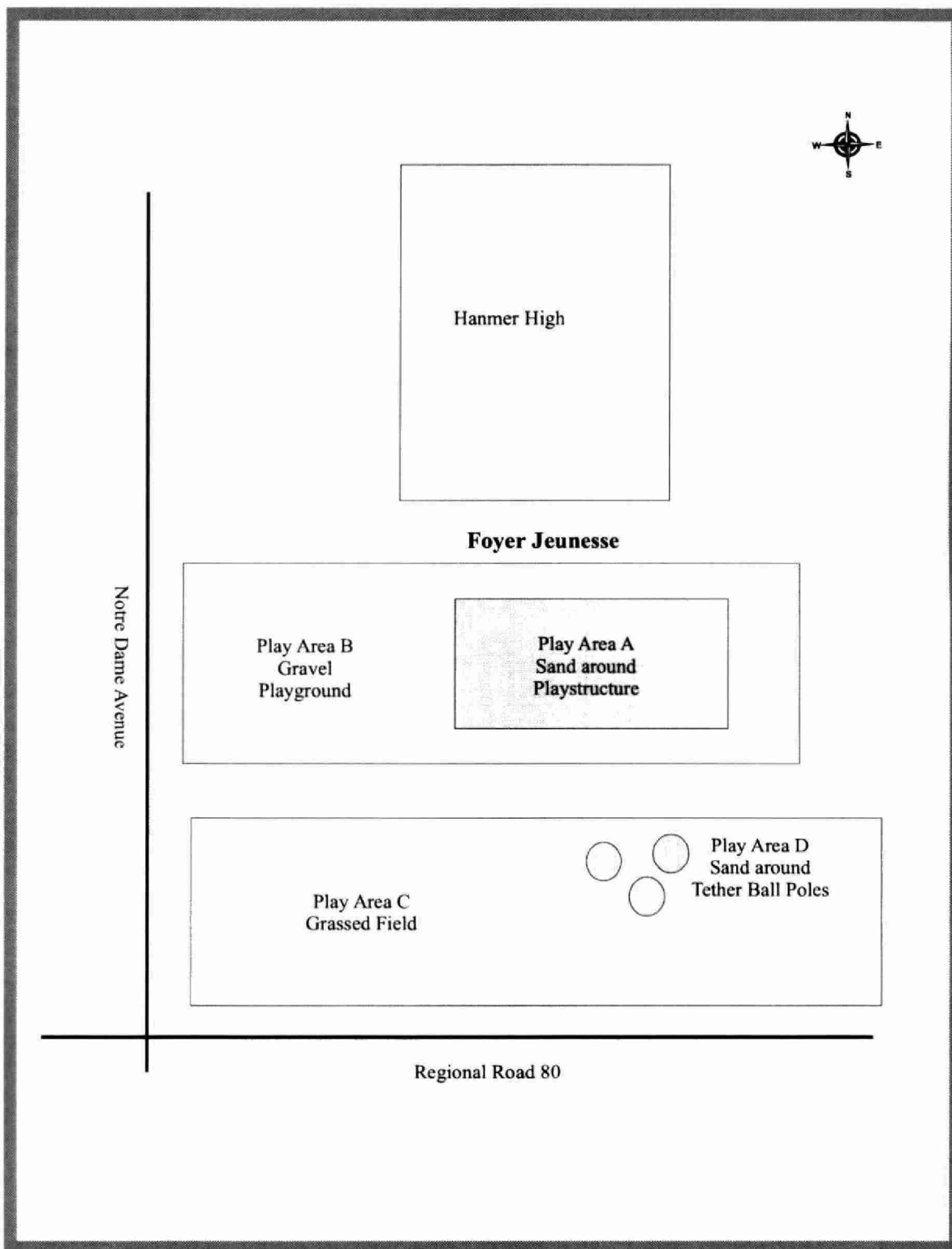


Figure B2.3.3: E.P. Foyer Jeunesse Sampling Locations - 2001.

2.3.4 E.S. Hanmer - Conseil Scolaire du District de Grand Nord de L'Ontario 4800 Rue Notre Dame, Hanmer

E.S. Hanmer was sampled on July 20, 2001. Figure B2.3.4 details the sampling locations at this property. Samples were taken from four areas on the school property. Areas A and B correspond to the grassed area of the east soccer field and the worn areas around the soccer goal posts, respectively. Due to the compacted nature of Areas A and B, it was only possible to sample the surface soil (0-5 cm). Area C corresponds to the grassed area of the west soccer field. Area D corresponds to the sand samples taken from the landing area of the long jump pit. Due to the constant mixing of sand and the homogenous nature of the sanded area, sand samples were collected with hand trowels to represent the 0-15 cm depth. All data were compared with the MOE Table F Ontario Soil Background Criteria and Table A Effects Based Soil Criteria (MOE 1997).

Metal concentrations were not elevated in the sand beneath the play structures. The sand present is not likely native to the school property and is believed to have been introduced when the sanded play areas were constructed. Thus the sand was not expected to have elevated metal concentrations. Nickel (Ni) and lead (Pb) concentrations were elevated above the MOE Table F Ontario Soil Background Criteria in samples taken from the surface soil samples from east and west grassed soccer fields. The highest nickel and lead concentrations found in these samples was 62 and 79 ppm, respectively. All other metals listed, as well as aluminum (Al), calcium (Ca), iron (Fe), magnesium (Mg), manganese (Mn), and strontium (Sr) which are not listed, were below the MOE Table F Ontario Soil Background Criteria. There were no exceedences of the MOE Table A Effects Based Soil Criteria at this property.

These soil results are similar to those reported historically. Previous MOE sampling of undisturbed soils approximately 2 km southeast, 2 km southwest, and 2.5 km northwest of E.S. Hanmer, Stations 350, 346, and 347, respectively, of the MOE Sudbury 2000 Report, for the City of Greater Sudbury (MOE 2001), indicated nickel and copper surface soil concentration ranges of 43 to 150 and 35 to 110 ppm, respectively. Historic MOE sampling in the Sudbury area was of undeveloped surface soils which may not be representative of the materials sampled on this property.

Table B2.3.4: Concentration of 13 Elements in Soil in µg/g Collected at E.S. Hanmer, 4800 Rue Notre Dame, Hanmer - 2001																
Map ID	Station	Sample Number	Soil Depth	Sb	As	Ba	Cd	Cr	Co	Cu	Pb	Mo	Ni	Se	V	Zn
Area A grass	5037339	14586	0 - 5	< 0.8	< 5	42	< 0.8	37	6	33	79	< 1.5	50	< 1	27	46
		14587	0 - 5	< 0.8	< 5	52	< 0.8	39	7	46	78	< 1.5	62	< 1	30	44
Area B soil	5037340	14588	0 - 5	< 0.8	< 5	32	< 0.8	29	5	30	25	< 1.5	41	< 1	28	30
Area C grass	5037341	14589	0 - 5	< 0.8	6	36	< 0.8	31	5	39	12	< 1.5	50	< 1	30	27
		14590	0 - 5	< 0.8	< 5	33	< 0.8	28	5	36	11	< 1.5	46	< 1	27	26
		14591	5 - 10	< 0.8	< 5	29	< 0.8	27	4	29	9	< 1.5	37	< 1	28	23
		14592	5 - 10	< 0.8	< 5	23	< 0.8	23	4	31	8	< 1.5	42	< 1	25	17
		14593	10 - 20	< 0.8	< 5	27	< 0.8	26	4	30	7	< 1.5	34	< 1	27	19
		14594	10 - 20	< 0.8	< 5	22	< 0.8	20	4	29	8	< 1.5	33	< 1	22	18
Area D sand	5037342	14595	0 - 15	< 0.8	< 5	21	< 0.8	25	6	18	3	< 1.5	25	< 1	33	18
Table F (results in bold)				1.0	14	190	1.0	67	19	56	55	2.5	43	1.4	91	150
Table A (results in bold and underlined)				13	20	750	12	750	40	225	200	5.0	150	10	200	600
< - less than the Method Detection Limit.																
Al, Ca, Fe, Mg, Mn, and Sr results can be found in Table 4.1.																

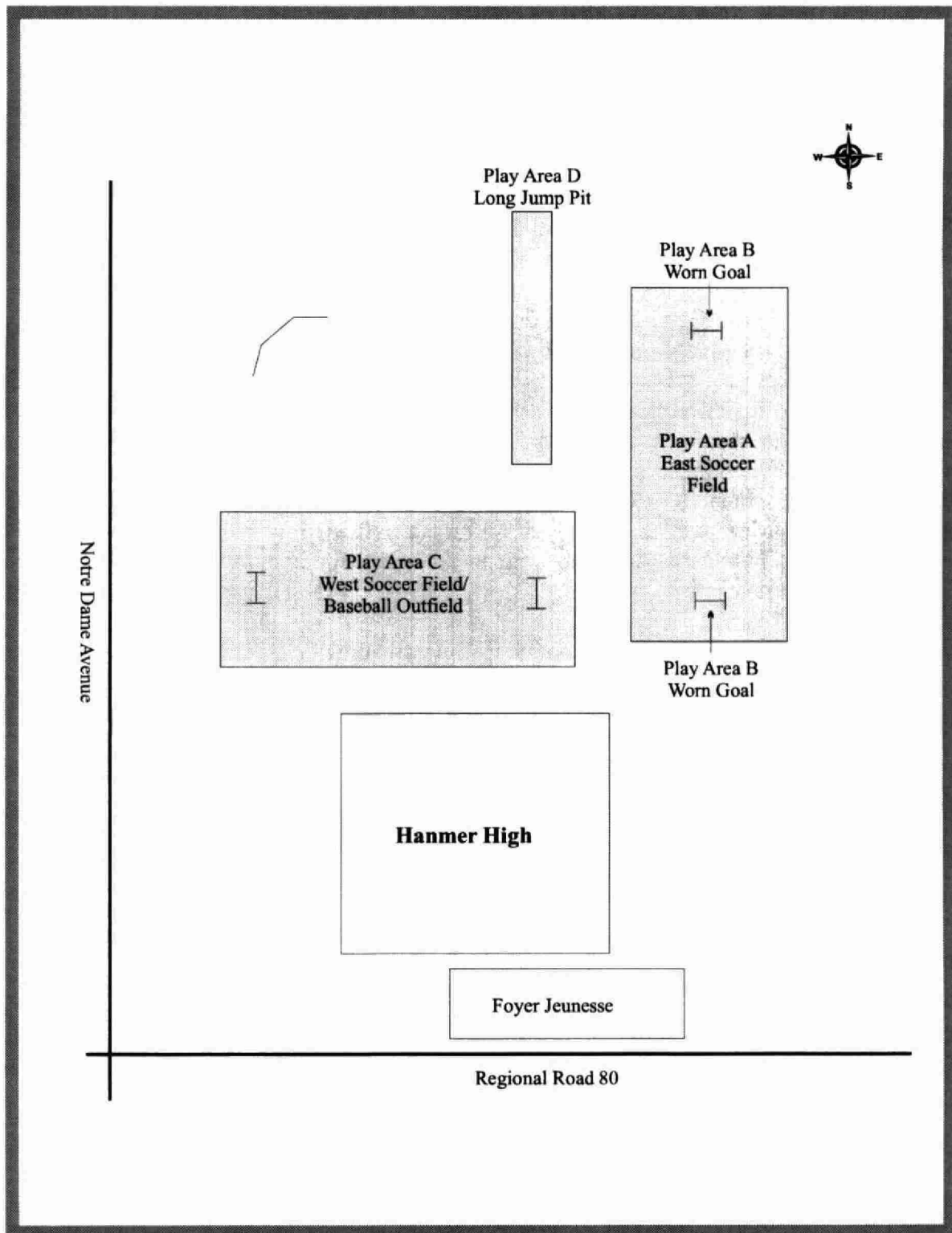


Figure B2.3.4: E.S. Hanmer Sampling Locations - 2001.

2.3.5 E.P. Jeanne-Sauve - Conseil Scolaire du District de Grand Nord de L'Ontario 300 Rue Van Horne, Sudbury

E.P. Jeanne-Sauve was sampled on July 5, 2001. Figure B2.3.5 details the sampling locations at this property. Samples were taken from six areas on the school property. Area A corresponds to the grassed areas of the baseball diamond outfields. Area B corresponds to samples taken from the worn area around home plate for both baseball diamond infields. Due to the compacted nature of Areas A and B, it was only possible to sample the surface soil (0-5 cm). Area D corresponds to the grassed area on the northwest corner of the school building. Areas C, E, and F correspond to sand samples collected from the sand boxes located northwest of the school building. Due to the constant mixing of sand and the homogenous nature of the sanded areas, sand samples were collected with hand trowels to represent the 0-15 cm depth. All data were compared with the MOE Table F Ontario Soil Background Criteria and Table A Effects Based Soil Criteria (MOE 1997).

Metal concentrations were not elevated in the sand beneath the play structures. The sand present is not likely native to the school property and is believed to have been introduced when the sanded play areas were constructed. Thus the sand was not expected to have elevated metal concentrations. Nickel (Ni) and copper (Cu) concentrations were elevated above the MOE Table F Ontario Soil Background Criteria for all other samples taken from this property. The highest nickel and copper concentrations, 130 ppm each, were found in the surface soil of the grassed play area northwest of the school building. All other metals listed, as well as aluminum (Al), calcium (Ca), iron (Fe), magnesium (Mg), manganese (Mn), and strontium (Sr) which are not listed, were below the MOE Table F Ontario Soil Background Criteria. There were no exceedences of the MOE Table A Effects Based Soil Criteria at this property.

Table B2.3.5: Concentration of 13 Elements in Soil in µg/g Collected at E.P. Jeanne-Sauve, 300 Rue Van Horne, Sudbury - 2001																
Map ID	Station	Sample Number	Soil Depth	Sb	As	Ba	Cd	Cr	Co	Cu	Pb	Mo	Ni	Se	V	Zn
Area A grass	5037089	14179	0 - 5	< 0.8	< 5	43	< 0.8	33	7	92	17	< 1.5	110	< 1	27	33
		14180	0 - 5	< 0.8	< 5	40	< 0.8	29	7	110	19	< 1.5	130	< 1	24	36
Area B soil	5037090	14183	0 - 5	< 0.8	< 5	41	< 0.8	30	7	94	16	< 1.5	110	< 1	27	73
Area C sand	5037091	14184	0 - 15	< 0.8	< 5	21	< 0.8	28	7	19	3	< 1.5	20	< 1	27	17
Area D grass	5037092	14181	0 - 5	< 0.8	< 5	34	< 0.8	26	7	110	22	< 1.5	99	< 1	24	33
		14182	0 - 5	< 0.8	< 5	34	< 0.8	28	8	130	28	< 1.5	130	1.4	25	38
		14187	5 - 10	< 0.8	< 5	31	< 0.8	25	4	47	8	< 1.5	49	< 1	25	23
		14188	5 - 10	< 0.8	< 5	32	< 0.8	27	5	66	14	< 1.5	64	< 1	27	26
		14189	10 - 20	< 0.8	< 5	39	< 0.8	29	4	25	7	< 1.5	37	< 1	32	23
		14190	10 - 20	< 0.8	< 5	35	< 0.8	25	4	25	7	< 1.5	35	< 1	26	22
Area E sand	5030970	14185	0 - 15	< 0.8	< 5	18	< 0.8	25	7	21	3	< 1.5	20	< 1	28	16
Area F sand	5037093	14186	0 - 15	< 0.8	< 5	19	< 0.8	28	7	23	3	< 1.5	25	< 1	28	17
Table F (results in bold)				1.0	14	190	1.0	67	19	56	55	2.5	43	1.4	91	150
Table A (results in bold and underlined)				13	20	750	12	750	40	225	200	5.0	150	10	200	600
< - less than the Method Detection Limit.				Al, Ca, Fe, Mg, Mn, and Sr results can be found in Table 4.1.												

These soil results are much lower than those reported historically. Previous MOE sampling of undisturbed soils approximately 1 km east of E.P. Jeanne-Sauve, Station 75 of the MOE Sudbury 2000 Report, for the City of Greater Sudbury (MOE 2001), indicated nickel and copper surface soil

concentrations as high as 830 and 820 ppm, respectively. Historic MOE sampling in the Sudbury area was of undeveloped surface soils which may not be representative of the materials sampled on this property.

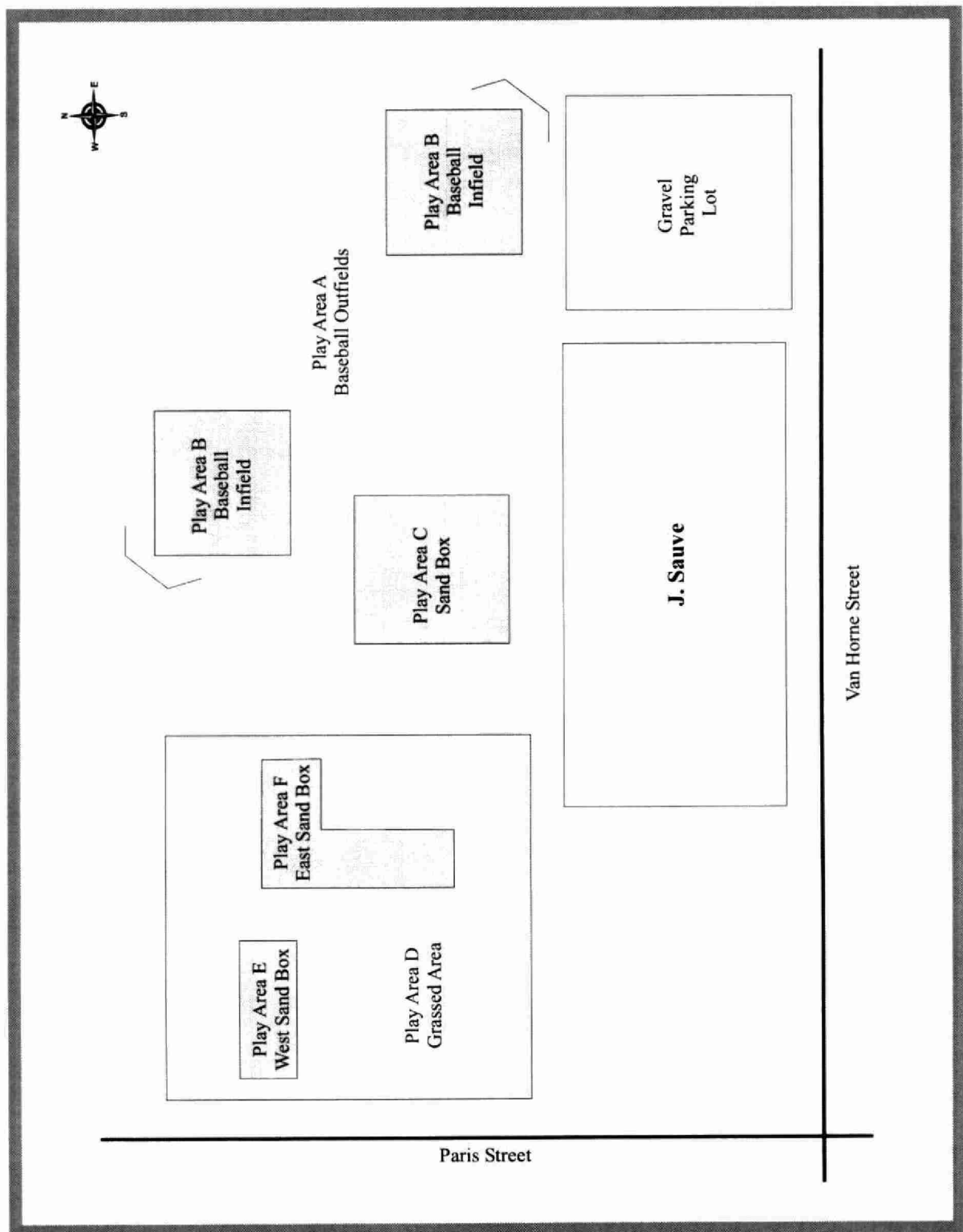


Figure B2.3.5: J. Sauve Soil Sampling Locations - 2001.

2.3.6. Jean-Ethier-Blais - Conseil Scolaire du District de Grand Nord de L'Ontario 2190 Boulevard Lasalle, Sudbury

Jean-Ethier-Blais was sampled on July 18, 2001. Figure B2.3.6 details the sampling locations at this property. Samples were taken from four areas on the school property. Area A corresponds to the grassed areas of the football field. Area B corresponds to the grassed area of the baseball diamond outfield. Area C corresponds to the baseball diamond infield. Due to the compacted nature of Areas A and C, it was only possible to sample the 10 - 20 cm depth for one replicate of the football field and the surface soil layer of the baseball diamond infield. Area D corresponds to sand samples taken from beneath the play structure. Due to the constant mixing of sand and the homogenous nature of the sanded areas, sand samples were collected with hand trowels to represent the 0-15 cm depth. All data were compared with the MOE Table F Ontario Soil Background Criteria and Table A Effects Based Soil Criteria (MOE 1997).

Metal concentrations were not elevated in the sand beneath the play structures. The sand present is not likely native to the school property and is believed to have been introduced when the sanded play areas were constructed. Thus the sand was not expected to have elevated metal concentrations. Nickel (Ni) and copper (Cu) concentrations were elevated above the MOE Table F Ontario Soil Background Criteria for selected samples taken from this property. The highest nickel and copper concentrations, 100 and 85 ppm, respectively, were found in the surface soil of the grassed area of the baseball diamond outfield. All other metals listed, as well as aluminum (Al), calcium (Ca), iron (Fe), magnesium (Mg), manganese (Mn), and strontium (Sr) which are not listed, were below the MOE Table F Ontario Soil Background Criteria. There were no exceedences of the MOE Table A Effects Based Soil Criteria at this property.

Table B2.3.6: Concentration of 13 Elements in Soil in µg/g Collected at E.P. Jean-Ethier-Blais, 2190 Boulevard Lasalle, Sudbury - 2001																
Map ID	Station	Sample Number	Soil Depth	Sb	As	Ba	Cd	Cr	Co	Cu	Pb	Mo	Ni	Se	V	Zn
Area A grass	5037151	14391	0 - 5	< 0.8	< 5	18	< 0.8	23	5	12	2	< 1.5	18	< 1	25	16
		14392	0 - 5	< 0.8	< 5	17	< 0.8	24	5	13	2	< 1.5	18	< 1	27	18
		14393	5 - 10	< 0.8	< 5	44	< 0.8	30	7	52	9	< 1.5	63	< 1	32	40
		14394	5 - 10	< 0.8	< 5	42	< 0.8	32	7	54	8	< 1.5	61	< 1	32	46
		14401	10 - 20	< 0.8	5	32	< 0.8	32	7	38	9	< 1.5	44	< 1	26	45
Area B grass	5037152	14395	0 - 5	< 0.8	< 5	15	< 0.8	20	5	11	2	< 1.5	16	< 1	23	12
		14396	0 - 5	< 0.8	< 5	45	< 0.8	34	8	85	15	< 1.5	100	< 1	31	33
		14397	5 - 10	< 0.8	< 5	42	< 0.8	37	7	77	13	< 1.5	86	< 1	34	31
		14398	5 - 10	< 0.8	5	37	< 0.8	33	7	60	10	< 1.5	73	< 1	32	26
		14402	10 - 20	< 0.8	< 5	32	< 0.8	23	4	31	7	< 1.5	45	< 1	23	20
		14403	10 - 20	< 0.8	< 5	28	< 0.8	25	4	25	6	< 1.5	38	< 1	24	18
Area C soil	5037153	14399	0 - 5	< 0.8	< 5	29	< 0.8	26	5	33	8	< 1.5	42	< 1	25	41
		14400	0 - 5	< 0.8	< 5	40	< 0.8	24	5	33	8	< 1.5	59	< 1	26	26
Area D sand	5037154	14404	0 - 15	< 0.8	< 5	16	< 0.8	22	5	13	2	< 1.5	19	< 1	34	22
Table F (results in bold)				1.0	14	190	1.0	67	19	56	55	2.5	43	1.4	91	150
Table A (results in bold and underlined)				13	20	750	12	750	40	225	200	5.0	150	10	200	600
< - less than the Method Detection Limit. Al, Ca, Fe, Mg, Mn, and Sr results can be found in Table 4.1.																

These soil results are similar to those reported historically. Previous MOE sampling of undisturbed soils approximately 1 km northeast of E.P. Jean-Ethier-Blais, Station 42 of the MOE Sudbury 2000 Report, for the City of Greater Sudbury (MOE 2001), indicated surface soil nickel and copper

concentration ranges of 46 to 170 ppm and 26 to 150 ppm, respectively. Historic MOE sampling in the Sudbury area was of undeveloped surface soils which may not be representative of the materials sampled on this property.

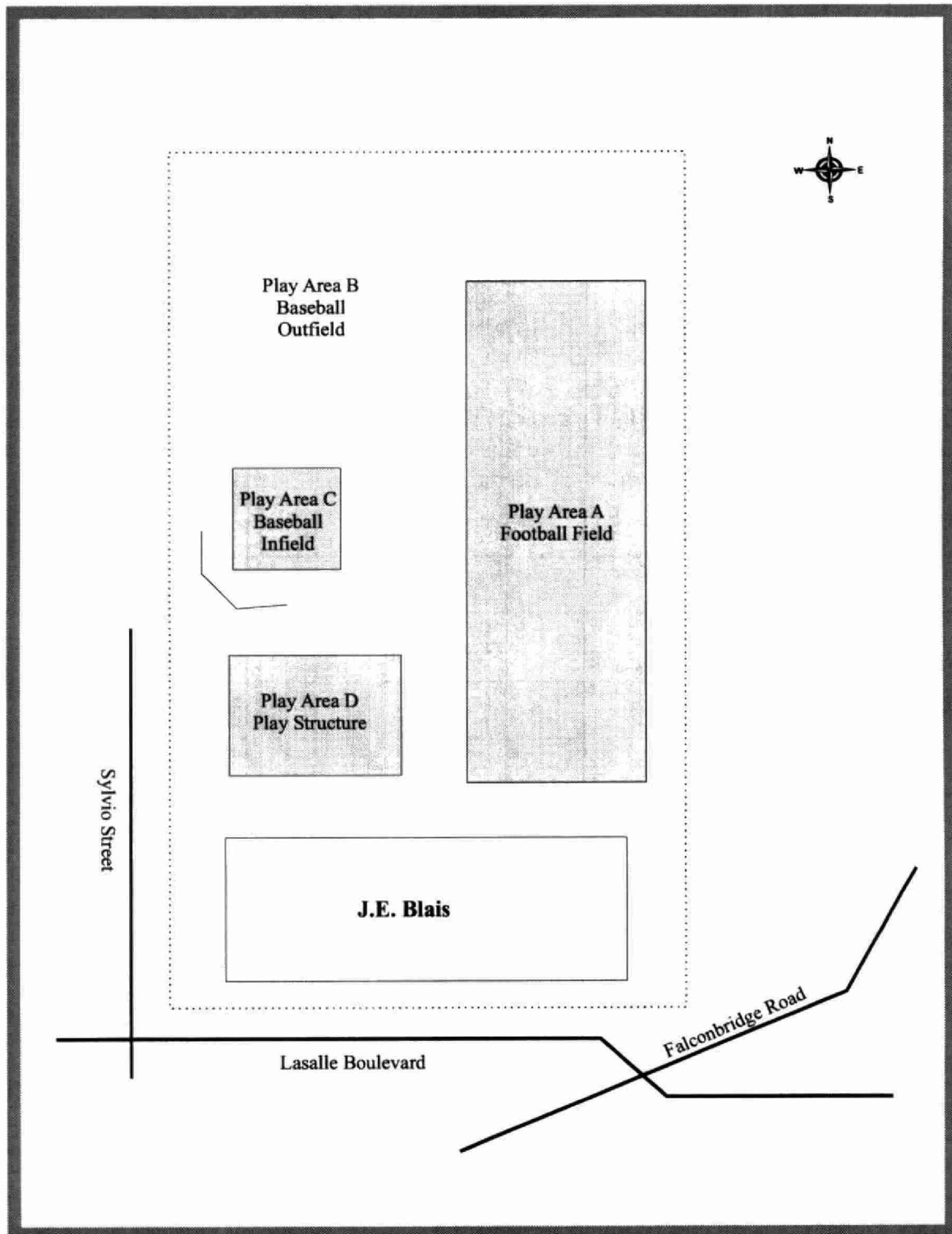


Figure B2.3.6: J.E. Blais Soil Sampling Locations - 2001.

2.3.7 E.S. Macdonald Cartier - Conseil Scolaire du District de Grand Nord de L'Ontario 37 Boulevard Lasalle West, Sudbury

E.S. Macdonald Cartier was sampled on July 19, 2001. Figure B2.3.7 details the sampling locations at this property. Samples were taken from three areas on the school property. Area A corresponds to the grassed area of the soccer field. Areas B and C correspond to the worn areas around the north and south soccer goal posts, respectively. Due to the compacted nature of Areas A, B, and C, it was only possible to sample the surface soil layer (0-5 cm). All data were compared with the MOE Table F Ontario Soil Background Criteria and Table A Effects Based Soil Criteria (MOE 1997).

Nickel (Ni) concentrations were elevated above the MOE Table F Ontario Soil Background Criteria for all samples taken from this property. Copper (Cu), lead (Pb), and selenium (Se) were also elevated above the MOE Table F Ontario Soil Background Criteria for selected samples from this property. The highest nickel, copper, lead and selenium concentrations, 170, 140, 150, and 2 ppm, respectively, were found in the surface soil of the grassed area of the soccer field. All other metals listed, as well as aluminum (Al), calcium (Ca), iron (Fe), magnesium (Mg), manganese (Mn), and strontium (Sr) which are not listed, were below the MOE Table F Ontario Soil Background Criteria. Only one sample taken from the grassed area of the soccer field was elevated above the MOE Table A Effects Based Soil Criteria (MOE 1997).

The nickel and copper soil results are lower than those reported historically, while the lead soil results are similar to those previously reported. Previous MOE sampling of undisturbed soils approximately 1.5 km southwest, 2 km southeast, and 0.8 km north of E.S. Macdonald Cartier, Stations 362, 85, and 337, respectively, of the MOE Sudbury 2000 Report for the City of Greater Sudbury (MOE 2001), indicated surface soil nickel and copper concentration ranges of 56 to 375 ppm and 35 to 305 ppm, respectively. The highest lead surface soil concentration reported for Station 337 was 91 ppm. Historic MOE sampling in the Sudbury area was of undeveloped surface soils which may not be representative of the materials sampled on this property.

Table B2.3.7: Concentration of 13 Elements in Soil in µg/g Collected at E.S. Macdonald Cartier, 37 Boulevard Lasalle West, Sudbury - 2001																
Map ID	Station	Sample Number	Soil Depth	Sb	As	Ba	Cd	Cr	Co	Cu	Pb	Mo	Ni	Se	V	Zn
Area A grass	5037203	14473	0 - 5	< 0.8	5	38	< 0.8	29	7	99	35	< 1.5	110	< 1	27	25
		14474	0 - 5	< 0.8	6	45	0.9	54	9	140	150	< 1.5	<u>170</u>	2	25	31
Area B soil	5037204	14475	0 - 5	< 0.8	6	36	< 0.8	31	6	51	13	< 1.5	73	< 1	29	24
Area C soil	5037205	14476	0 - 5	< 0.8	< 5	32	< 0.8	25	5	37	9	< 1.5	47	< 1	25	21
Table F (results in bold)				1.0	14	190	1.0	67	19	56	55	2.5	43	1.4	91	150
Table A (results in bold and underlined)				13	20	750	12	750	40	225	200	5.0	150	10	200	600
< - less than the Method Detection Limit.				Al, Ca, Fe, Mg, Mn, and Sr results can be found in Table 4.1.												

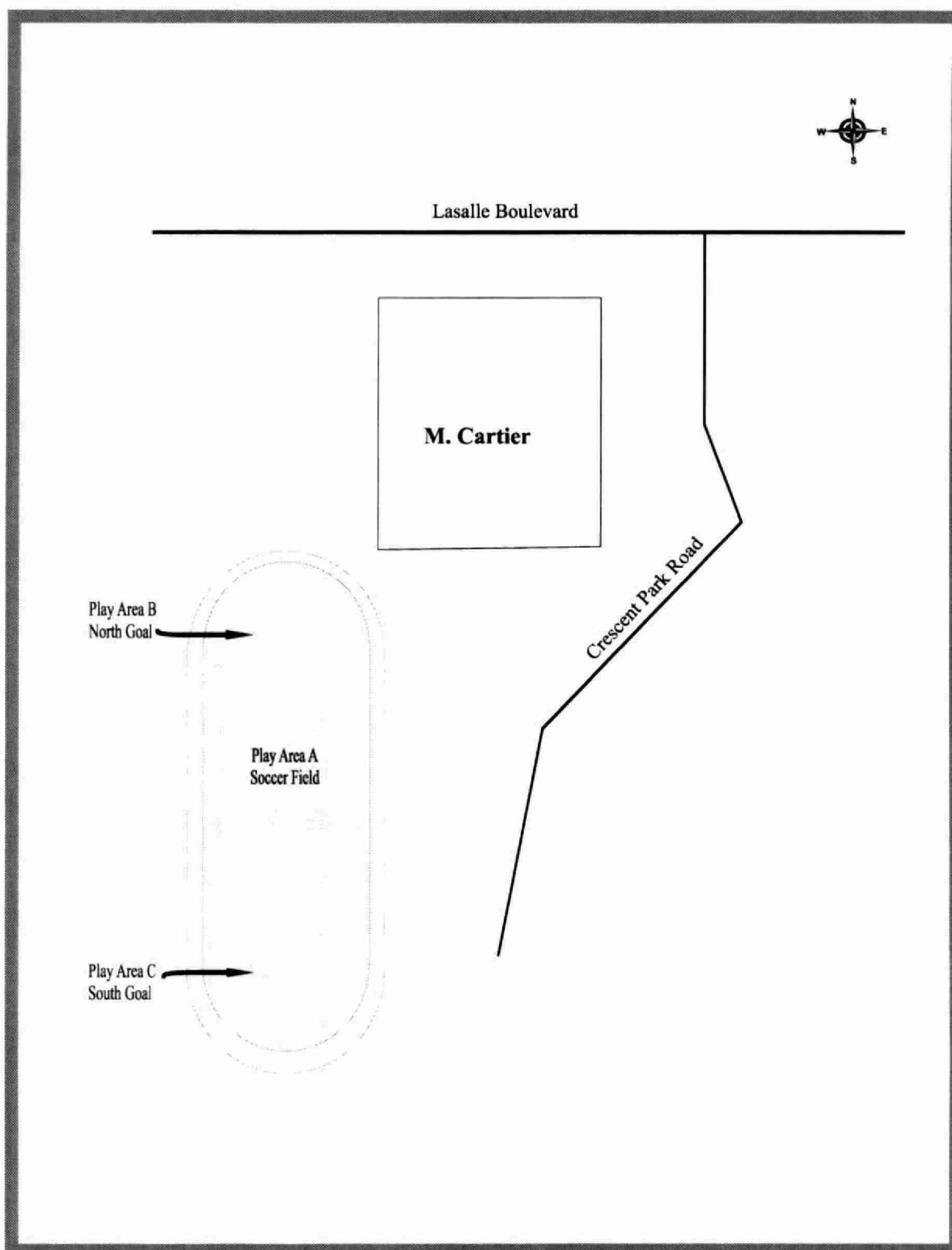


Figure B2.3.7: E.S. Macdonald Cartier Sampling Locations - 2001.

2.3.8 E.P. Sud Ouest Publique (Helene-Gravel) - Conseil Scolaire du District de Grand Nord de L'Ontario, 1412 Rue Stephen, Sudbury

E.P. Sud Ouest Publique, recently renamed E.P. Helene-Gravel, was sampled on July 4, 2001. Figure B2.3.8 details the sampling locations at this property. Samples were taken from six areas on the school property. Area A corresponds to the baseball diamond infield. Area B corresponds to the grassed area of the baseball diamond outfield. Area C corresponds to the grassed area of the soccer field. Areas D and E correspond to the worn areas around the west and east soccer goal posts, respectively. Due to the compacted nature of Areas A, B, C, D, and E, it was only possible to sample the surface soil layer (0-5 cm). Area E corresponds to the sand samples that were taken from beneath the play structure. Due to the constant mixing of sand and the homogenous nature of the sanded areas, sand samples were collected with hand trowels to represent the 0-15 cm depth. All data were compared with the MOE Table F Ontario Soil Background Criteria and Table A Effects Based Soil Criteria (MOE 1997).

Nickel (Ni), and copper (Cu) concentrations were elevated above the MOE Table F Ontario Soil Background Criteria for the sand that was taken from beneath the play structures. The sand present is not likely native to the school property and is believed to have been introduced when the sanded play areas were constructed. Thus the sand was not expected to have elevated metal concentrations. Nickel (Ni) and copper (Cu) concentrations were elevated above the MOE Table F Ontario Soil Background Criteria for almost all other samples taken from this property. Lead (Pb) and selenium (Se) were also elevated above the MOE Table F Ontario Soil Background Criteria for selected sites. Nickel concentrations were elevated above the MOE Table A Effects Based Soil Criteria in surface soil samples collected from the baseball diamond on this property. The highest nickel and copper concentrations, 190 and 170 ppm, respectively, were found in the surface soil of the grassed area of the baseball diamond outfield. All other metals listed, as well as aluminum (Al), calcium (Ca), iron (Fe), magnesium (Mg), manganese (Mn), and strontium (Sr) which are not listed, were below the MOE Table F Ontario Soil Background Criteria.

Table B2.3.8: Concentration of 13 Elements in Soil in µg/g Collected at E.P. Sud Ouest Publique (Helene-Gravel), 1412 Rue Stephen, Sudbury - 2001																
Map ID	Station	Sample Number	Soil Depth	Sb	As	Ba	Cd	Cr	Co	Cu	Pb	Mo	Ni	Se	V	Zn
Area A soil	5037041	14096	0 - 5	< 0.8	< 5	49	< 0.8	35	8	140	18	< 1.5	<u>160</u>	< 1	31	35
		14097	0 - 5	< 0.8	< 5	47	< 0.8	35	9	130	28	< 1.5	<u>170</u>	< 1	30	35
Area B grass	5037042	14098	0 - 5	< 0.8	< 5	48	< 0.8	34	8	120	16	< 1.5	140	< 1	30	34
		14099	0 - 5	0.8	< 5	57	< 0.8	36	9	170	19	< 1.5	<u>190</u>	1.7	32	39
Area C grass	5037043	14090	0 - 5	< 0.8	< 5	44	< 0.8	31	8	130	16	< 1.5	150	1.3	27	30
		14091	0 - 5	< 0.8	< 5	44	< 0.8	30	8	130	31	< 1.5	130	1.1	27	31
Area D soil	5037044	14092	0 - 5	2	< 5	37	< 0.8	30	8	110	120	< 1.5	120	< 1	29	29
Area E soil	5037045	14093	0 - 5	< 0.8	< 5	26	< 0.8	30	9	47	4	< 1.5	47	< 1	31	23
Area F sand	5037046	14094	0 - 15	< 0.8	< 5	46	< 0.8	33	8	110	14	< 1.5	130	< 1	29	28
		14095	0 - 15	< 0.8	< 5	34	< 0.8	33	8	54	4	< 1.5	53	< 1	36	32
Table F (results in bold)				1.0	14	190	1.0	67	19	56	55	2.5	43	1.4	91	150
Table A (results in bold and underlined)				13	20	750	12	750	40	225	200	5.0	150	10	200	600
< - less than the Method Detection Limit.																
Al, Ca, Fe, Mg, Mn, and Sr results can be found in Table 4.1.																

The nickel and copper soil results are lower to those reported historically, while the lead soil results are higher than previously reported. Previous MOE sampling of undisturbed soils approximately 0.8 km southwest of E.P. Sud Ouest Publique (E.P. Helene-Gravel), Station 368 of the MOE Sudbury

2000 Report, for the City of Greater Sudbury (MOE 2001), indicated surface soil nickel and copper concentrations of 400 and 490 ppm, respectively. The highest lead surface soil concentration reported for Station 368 was 30 ppm. Historic MOE sampling in the Sudbury area was of undeveloped surface soils which may not be representative of the materials sampled on this property.

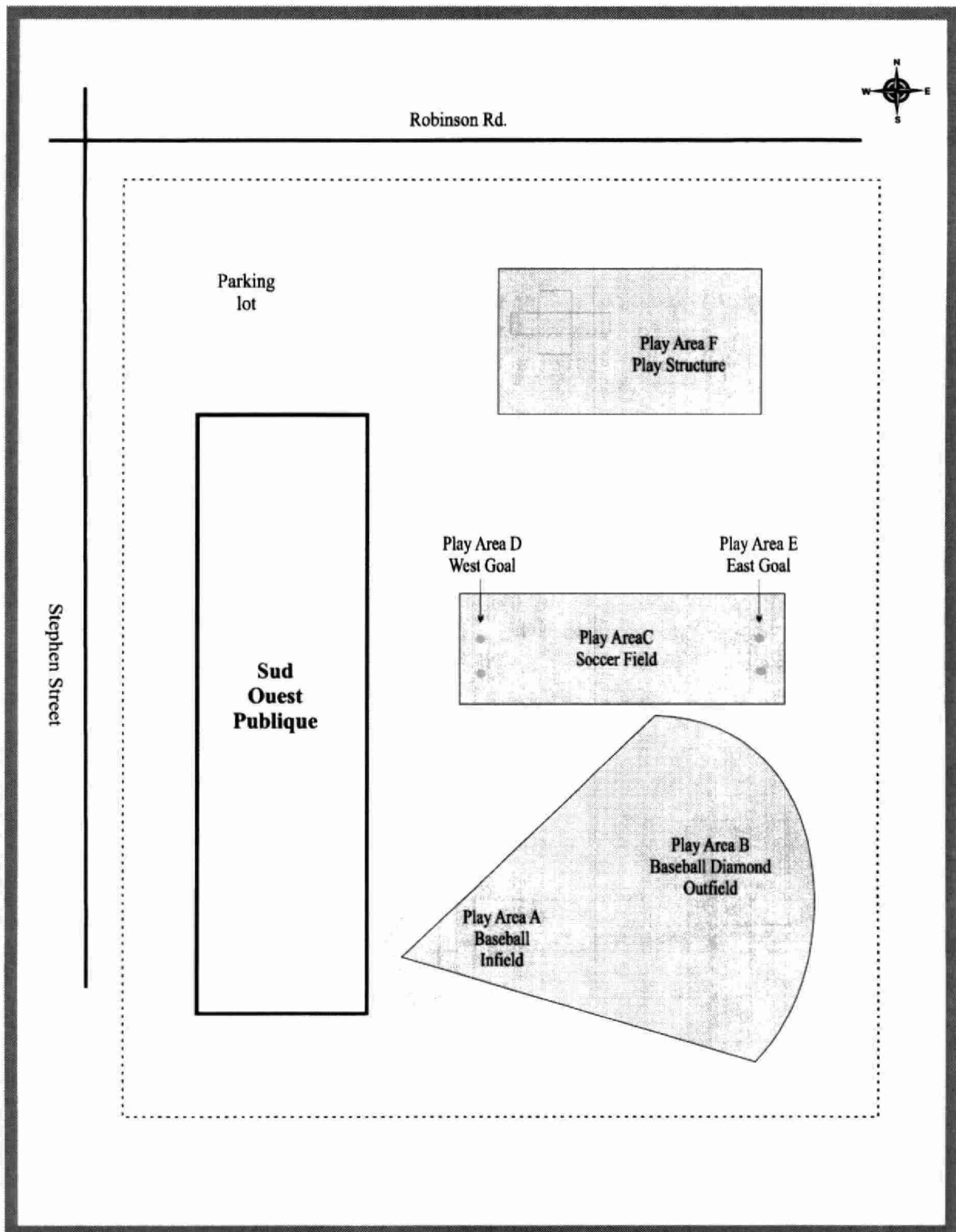


Figure B2.3.8: Sud Ouest Publique (E.p. Helene-Gravel) Soil Sampling Locations - 2001.

2.4 Le Conseil Scolaire Catholique du Nouvel-Ontario

As of June 2001, Le Conseil Scolaire Catholique du Nouvel-Ontario provided the MOE with a list of 31 school properties. MOE representatives were able to collect samples from all but two properties. Both St. Aloysius and St. Louis de Gonzague were paved and did not have any play areas to sample. For each school there is a section below describing the results, a table with a subset of the results, and a map showing the sampling locations. The maps were produced from field notes. They are not to scale and the locations of the buildings, boundaries and sampling sites shown are only approximate. The schools are listed alphabetically. Complete results for each school are listed in Table 4.1 along with the results from the other school boards.

Table B2.4: Number of Le Conseil Scolaire Catholique du Nouvel-Ontario school where at least one sample exceed MOE soil criteria.

Number of Schools	Nickel Exceedences		Copper Exceedences		Cobalt Exceedences		Arsenic Exceedences		Lead Exceedences	
	Table F	Table A	Table F	Table A	Table F	Table A	Table F	Table A	Table F	Table A
31	28	7	6	0	4	0	0	0	0	0

In order to fit all of the results data onto one table the standard chemical abbreviations had to be used. To interpret the tables properly, the chart below can be used to translate the abbreviations.

Chemical Symbols Used in Results Tables				
Al - aluminum	Sb - antimony	As - arsenic	Ba - barium	Be - beryllium
Cd - cadmium	Ca - calcium	Cr - chromium	Co - cobalt	Cu - copper
Fe - iron	Pb - lead	Mg - magnesium	Mn - manganese	Mo - molybdenum
Ni - nickel	Se - selenium	Sr - strontium	V - vanadium	Zn - zinc

Please note as of 2004, Le Conseil Scolaire Catholique du Nouvel-Ontario has sold one school, St. Michel (2.4.25) to the Sudbury Catholic District School Board.

2.4.1 College Notre Dame - Le Conseil Scolaire Catholique du Nouvel-Ontario 100 Rue Levis, Sudbury

College Notre Dame was sampled on July 16, 2001. Figure B2.4.1 details the sampling locations at this property. Samples were taken from one area on the school property. Area A corresponds to the grassed field located behind the portables. Due to the compacted nature of this area and/or the presence of bedrock, it was only possible to sample the surface soil (0 - 5 cm). All data were compared with the MOE Table F Ontario Soil Background Criteria and Table A Effects Based Soil Criteria (MOE 1997).

Metals were not elevated above the MOE Table F Ontario Soil Background Criteria at any site from this property. All metals listed, as well as aluminum (Al), calcium (Ca), iron (Fe), magnesium (Mg), manganese (Mn), and strontium (Sr) which are not listed, were below the MOE Table F Ontario Soil Background Criteria. There were no exceedences of the MOE Table A Effects Based Soil Criteria at this property.

These soil results are much lower than those reported historically. Previous MOE sampling of undisturbed soils approximately 2 km northwest, 1 km west, and 2 km southeast of College Notre Dame, Stations 362, 84, and 75, respectively, of the MOE Sudbury 2000 Report for the City of Greater Sudbury (MOE 2001), indicated nickel and copper surface soil concentration ranges of 230 to 740 and 230 to 820 ppm, respectively. Historic MOE sampling in the Sudbury area was of undeveloped surface soils which may not be representative of the materials sampled on this property.

Table B2.4.1: Concentration of 13 Elements in Soil in µg/g Collected at College Notre Dame, 100 Rue Levis, Sudbury - 2001																
Map ID	Station	Sample Number	Soil Depth	Sb	As	Ba	Cd	Cr	Co	Cu	Pb	Mo	Ni	Se	V	Zn
Area A grass	5037135	14244	0 - 5	< 0.8	6	36	< 0.8	25	5	27	8	< 1.5	38	< 1	28	20
		14245	0 - 5	< 0.8	5	33	< 0.8	25	4	26	8	< 1.5	39	< 1	29	21
Table F (results in bold)				1.0	14	190	1.	67	19	56	55		43		91	150
Table A (results in bold and				13	20	750	12.	750	40	225	200		150	10	200	600
< - less than the Method Detection Limit.																
Al, Ca, Fe, Mg, Mn, and Sr results can be found in Table 4.1.																

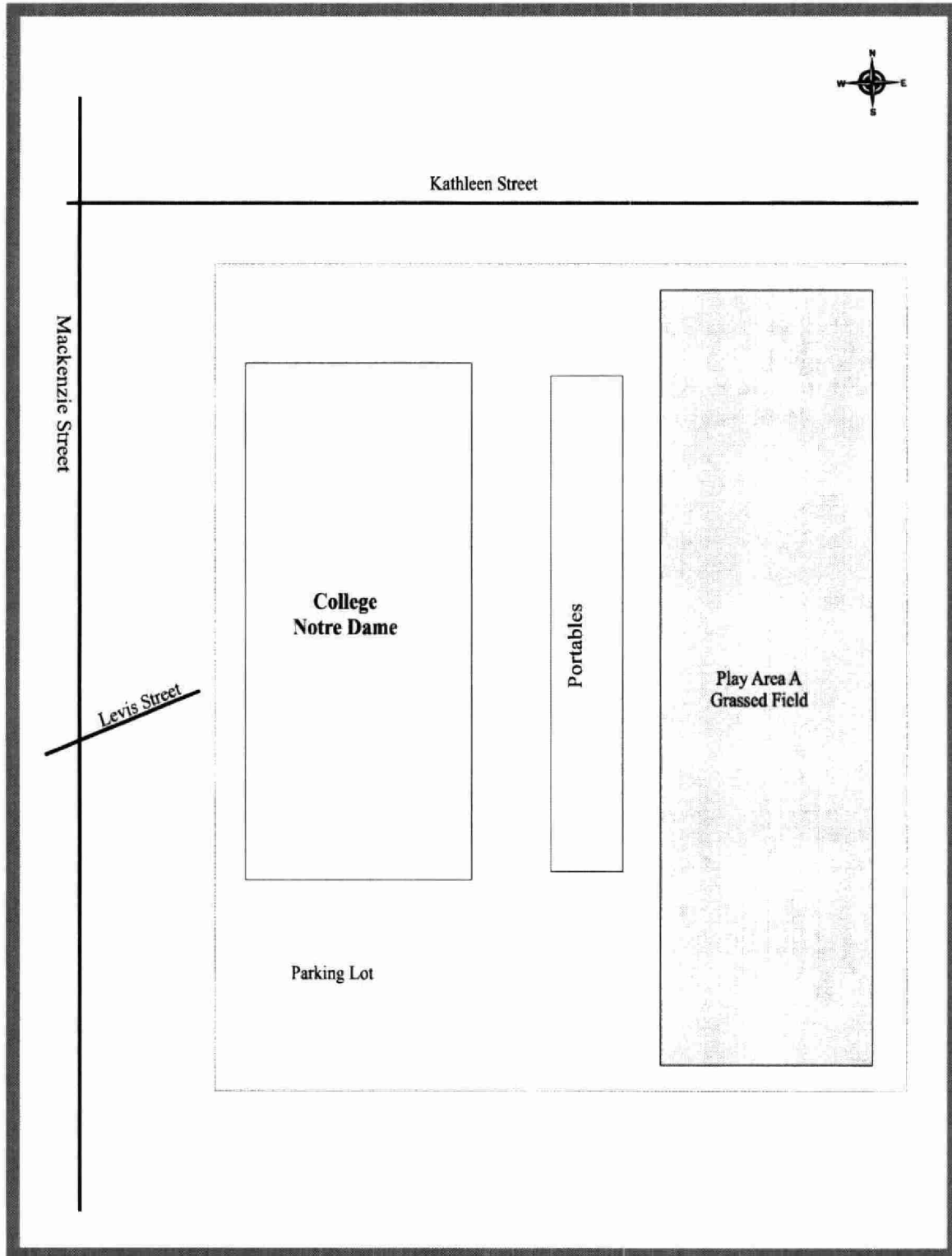


Figure B2.4.1: College Notre Dame Sampling Locations - 2001.

2.4.2 E.S.C. l'Heritage - Le Conseil Scolaire Catholique du Nouvel-Ontario 323 2nd Avenue, Sudbury

E.S.C. l'Heritage was sampled on July 17, 2001. Figure B2.4.2 details the sampling locations at this property. Samples were taken from three areas on the school property. Area A corresponds to the grassed area of the soccer field. Areas B and C correspond to the worn areas around the north and south soccer goal posts, respectively. Due to the compacted nature of the soccer field, it was only possible to sample the surface soil (0 - 5 cm). All data were compared with the MOE Table F Ontario Soil Background Criteria and Table A Effects Based Soil Criteria (MOE 1997).

Nickel (Ni) and copper (Cu) concentrations were elevated above the MOE Table F Ontario Soil Background Criteria in the surface soil in both samples from the grassed area of the soccer field and only nickel was elevated for the north goal post area. The highest nickel concentration occurred in the surface soil of the grassed soccer field, 120 and 100 ppm, respectively. All other metals listed, as well as aluminum (Al), calcium (Ca), iron (Fe), magnesium (Mg), manganese (Mn), and strontium (Sr) which are not listed, were below the MOE Table F Ontario Soil Background Criteria. There were no exceedences of the MOE Table A Effects Based Soil Criteria at this property.

These soil results fall within the concentration ranges of those reported historically. Previous MOE sampling of undisturbed soils approximately 1 km south and 1 km north of E.S.C. l'Heritage, Stations 77 and 361, respectively, of the MOE Sudbury 2000 Report for the City of Greater Sudbury (MOE 2001), indicated nickel and copper surface soil concentration ranges of 66 to 210 and 52 to 220 ppm, respectively. Historic MOE sampling in the Sudbury area was of undeveloped surface soils which may not be representative of the materials sampled on this property.

Table B2.4.2: Concentration of 13 Elements in Soil in µg/g Collected at E.S.C l'Heritage, 323 2nd Avenue, Sudbury -

Map ID	Station	Sample Number	Soil Depth	Sb	As	Ba	Cd	Cr	Co	Cu	Pb	Mo	Ni	Se	V	Zn
Area A grass	5037141	14307	0 - 5	< 0.8	5	47	< 0.8	42	9	100	42	< 1.5	120	< 1	31	34
		14308	0 - 5	< 0.8	7	50	< 0.8	43	9	76	24	< 1.5	100	< 1	34	33
Area B soil	5037142	14309	0 - 5	< 0.8	5	45	< 0.8	33	6	39	10	< 1.5	52	< 1	31	25
Area C soil	5037143	14310	0 - 5	< 0.8	6	44	< 0.8	34	6	29	9	< 1.5	43	< 1	30	29
Table F (results in bold)				1.0	14	190	1.0	67	19	56	55	2.5	43	1.4	91	150
Table A (results in bold and				13	20	750	12	750	40	225	200	5.0	150	10	200	600
< - less than the Method Detection Limit.				Al, Ca, Fe, Mg, Mn, and Sr results can be found in Table 4.1.												

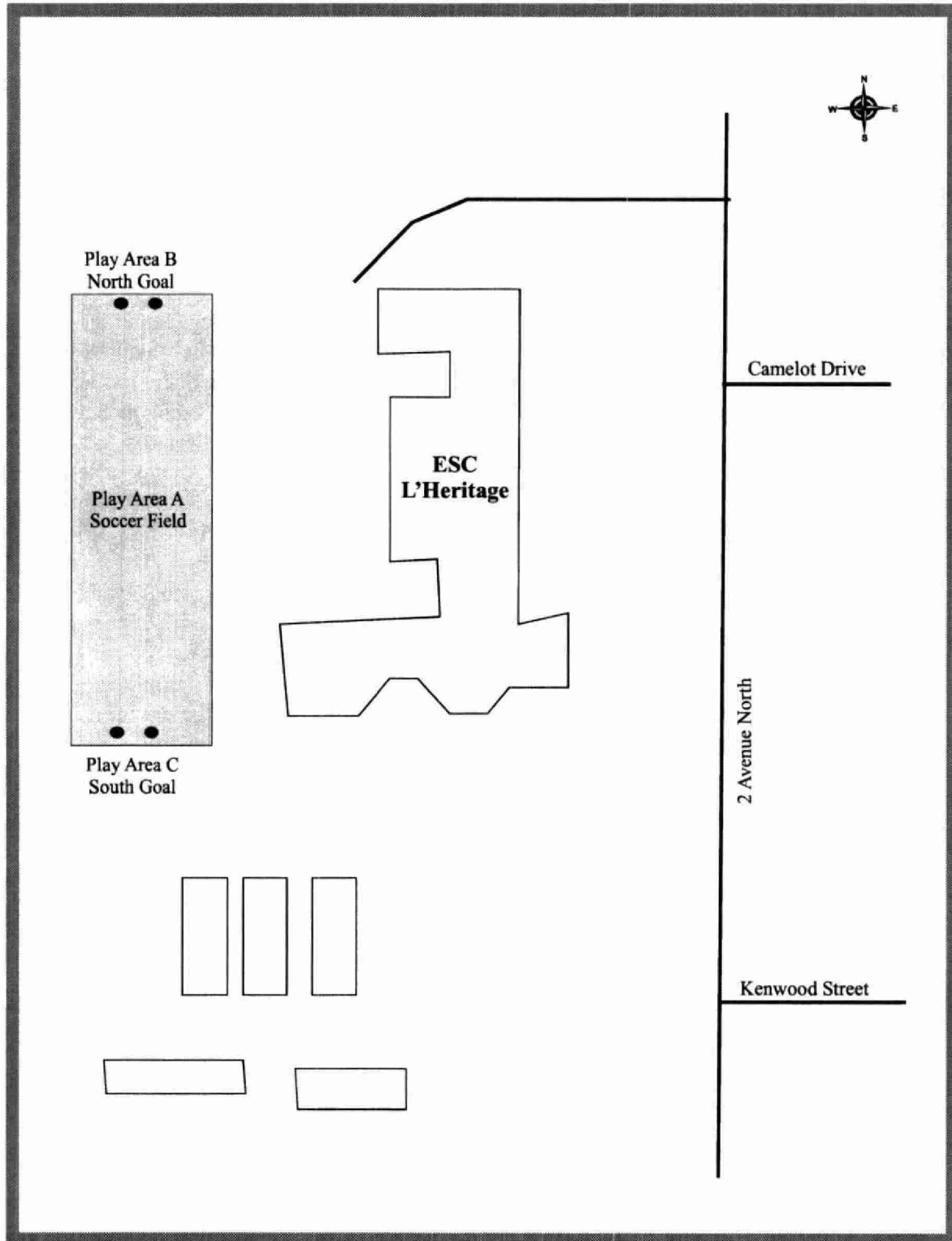


Figure B2.4.2: E.S.C. l'Heritage Sampling Locations - 2001.

2.4.3 E.S.C. Champlain - Le Conseil Scolaire Catholique du Nouvel-Ontario 61 Brookside Drive, Chelmsford

E.S.C. Champlain was sampled on July 19, 2001. Figure B2.4.3 details the sampling locations at this property. Samples were taken from three areas on the school property. Area A corresponds to the grassed area of the soccer field. Area B corresponds to the worn areas of the baseball diamond infield. Due to the compacted nature of Areas A and B it was only possible to sample the surface soil (0 - 5 cm). Area C corresponds to sand collected from the landing area of the long jump pit. Due to the constant mixing of sand and the homogeneous nature of the sanded areas, sand samples were collected with hand trowels to represent the 0-15 cm depth. All data were compared with the MOE Table F Ontario Soil Background Criteria and Table A Effects Based Soil Criteria (MOE 1997).

Metal concentrations were not elevated in the sand collected from the landing area of the long jump pit. The sand present is not likely native to the school property and is believed to have been introduced when the play area was constructed. Thus the sand was not expected to have elevated metal concentrations. One replicate of the soccer field surface soil had a nickel concentration marginally elevated above the MOE Table F Ontario Soil Background Criteria. All other metals listed, as well as aluminum (Al), calcium (Ca), iron (Fe), magnesium (Mg), manganese (Mn), and strontium (Sr) which are not listed, were below the MOE Table F Ontario Soil Background Criteria. There were no exceedences of the MOE Table A Effects Based Soil Criteria at this property.

These soil results are lower than those reported historically. Previous MOE sampling of undisturbed soils approximately 3.5 km northwest, 2.5 km southwest, and 4 km southeast of E.S.C. Champlain, Stations 386, 385, and 384, respectively, of the MOE Sudbury 2000 Report for the City of Greater Sudbury (MOE 2001), indicated nickel and copper surface soil concentration ranges of 65 to 170 and 49 to 130 ppm, respectively. Historic MOE sampling in the Sudbury area was of undeveloped surface soils which may not be representative of the materials sampled on this property.

Table B2.4.3: Concentration of 13 Elements in Soil in µg/g Collected at E.S.C. Champlain, 61 Brookside Drive, Chelmsford - 2001																
Map ID	Station	Sample Number	Soil Depth	Sb	As	Ba	Cd	Cr	Co	Cu	Pb	Mo	Ni	Se	V	Zn
Area A grass	5037382	14536	0 - 5	< 0.8	< 5	29	< 0.8	25	5	32	9	< 1.5	41	< 1	27	21
		14537	0 - 5	< 0.8	< 5	30	< 0.8	24	5	33	10	< 1.5	44	< 1	26	22
Area B soil	5037383	14538	0 - 5	< 0.8	< 5	46	< 0.8	29	7	24	6	< 1.5	32	< 1	30	25
Area C sand	5037384	14539	0 - 15	< 0.8	< 5	22	< 0.8	30	7	27	8	< 1.5	20	< 1	40	26
Table F (results in bold)				1.0	14	190	1.0	67	19	56	55	2.5	43	1.4	91	150
Table A (results in bold and				13	20	750	12	750	40	225	200	5.0	150	10	200	600
< - less than the Method Detection Limit.																
Al, Ca, Fe, Mg, Mn, and Sr results can be found in Table 4.1.																

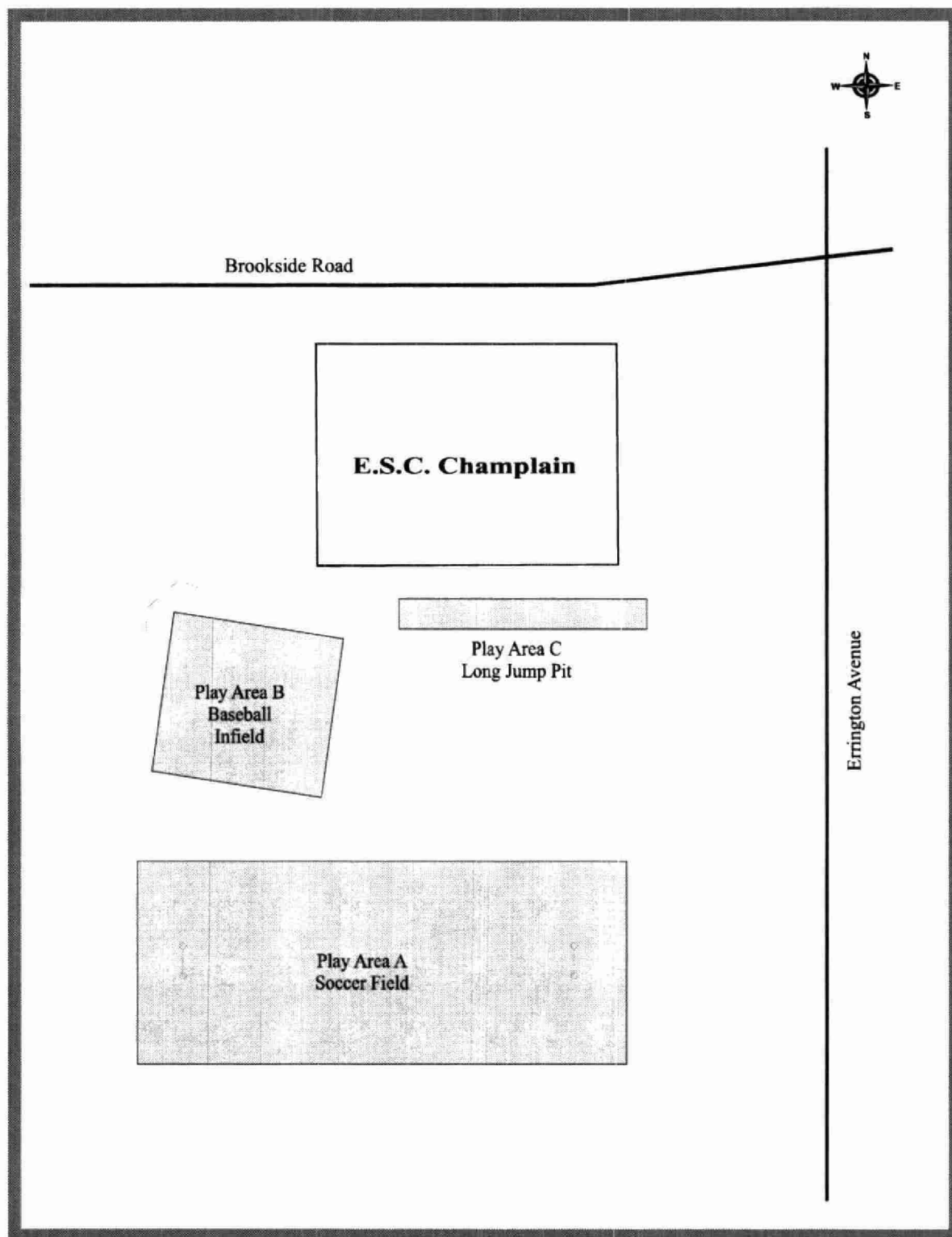


Figure B2.4.3: E.S.C. Champlain Sampling Locations - 2001.

2.4.4 E.S.C. l'Horizon - Le Conseil Scolaire Catholique du Nouvel-Ontario 1650 Valleyview Drive, Val Caron

E.S.C. l'Horizon was sampled on July 23, 2001. Figure B2.4.4 details the sampling locations at this property. Samples were taken from two areas on the school property. Area A corresponds to the grassed area of the baseball diamond outfield. Area B corresponds to the worn areas of the baseball diamond infield. Due to the compacted nature of the infield, it was only possible to sample the surface soil (0 - 5 cm). All data were compared with the MOE Table F Ontario Soil Background Criteria and Table A Effects Based Soil Criteria (MOE 1997).

Nickel (Ni) concentrations were elevated above the MOE Table F Ontario Soil Background Criteria in the all samples from the baseball diamond outfield. The highest nickel concentration occurred in the surface soil (0-5 cm) of the outfield. All other metals listed, as well as aluminum (Al), calcium (Ca), iron (Fe), magnesium (Mg), manganese (Mn), and strontium (Sr) which are not listed, were below the MOE Table F Ontario Soil Background Criteria. There were no exceedences of the MOE Table A Effects Based Soil Criteria at this property.

These soil results are lower than those reported historically. Previous MOE sampling of undisturbed soils approximately 0.2 km south, 3.2 km west, and 2.5 km northeast of E.S.C. l'Horizon, Stations 340, 341, and 348, respectively, of the MOE Sudbury 2000 Report for the City of Greater Sudbury (MOE 2001), indicated nickel and copper surface soil concentration ranges of 96 to 210 and 92 to 180 ppm, respectively. Historic MOE sampling in the Sudbury area was of undeveloped surface soils which may not be representative of the materials sampled on this property.

Table B2.4.4: Concentration of 13 Elements in Soil in µg/g Collected at E.S.C. l'Horizon, 1650 Valleyview Drive, Val Caron - 2001																
Map ID	Station	Sample Number	Soil Depth	Sb	As	Ba	Cd	Cr	Co	Cu	Pb	Mo	Ni	Se	V	Zn
Area A grass	5037279	14818	0 - 5	< 0.8	< 5	47	< 0.8	33	6	35	9	< 1.5	52	< 1	32	30
		14819	0 - 5	< 0.8	< 5	47	< 0.8	33	6	35	9	< 1.5	53	< 1	32	31
		14820	5 - 10	< 0.8	< 5	48	< 0.8	33	6	33	9	< 1.5	51	< 1	32	30
		14821	5 - 10	< 0.8	< 5	49	< 0.8	33	6	34	9	< 1.5	51	< 1	32	32
		14822	10 - 20	< 0.8	< 5	50	< 0.8	34	6	33	9	< 1.5	52	< 1	32	36
		14823	10 - 20	< 0.8	< 5	47	< 0.8	33	6	31	8	< 1.5	46	< 1	33	32
Area B soil	5037280	14824	0 - 5	< 0.8	< 5	29	< 0.8	19	5	20	3	< 1.5	30	< 1	23	16
		14825	0 - 5	< 0.8	< 5	27	< 0.8	20	5	17	2	< 1.5	19	< 1	22	13
Table F (results in bold)				1.0	14	190	1.0	67	19	56	55	2.5	43	1.4	91	150
Table A (results in bold and				13	20	750	12	750	40	225	200	5.0	150	10	200	600
< - less than the Method Detection Limit.																
Al, Ca, Fe, Mg, Mn, and Sr results can be found in Table 4.1.																

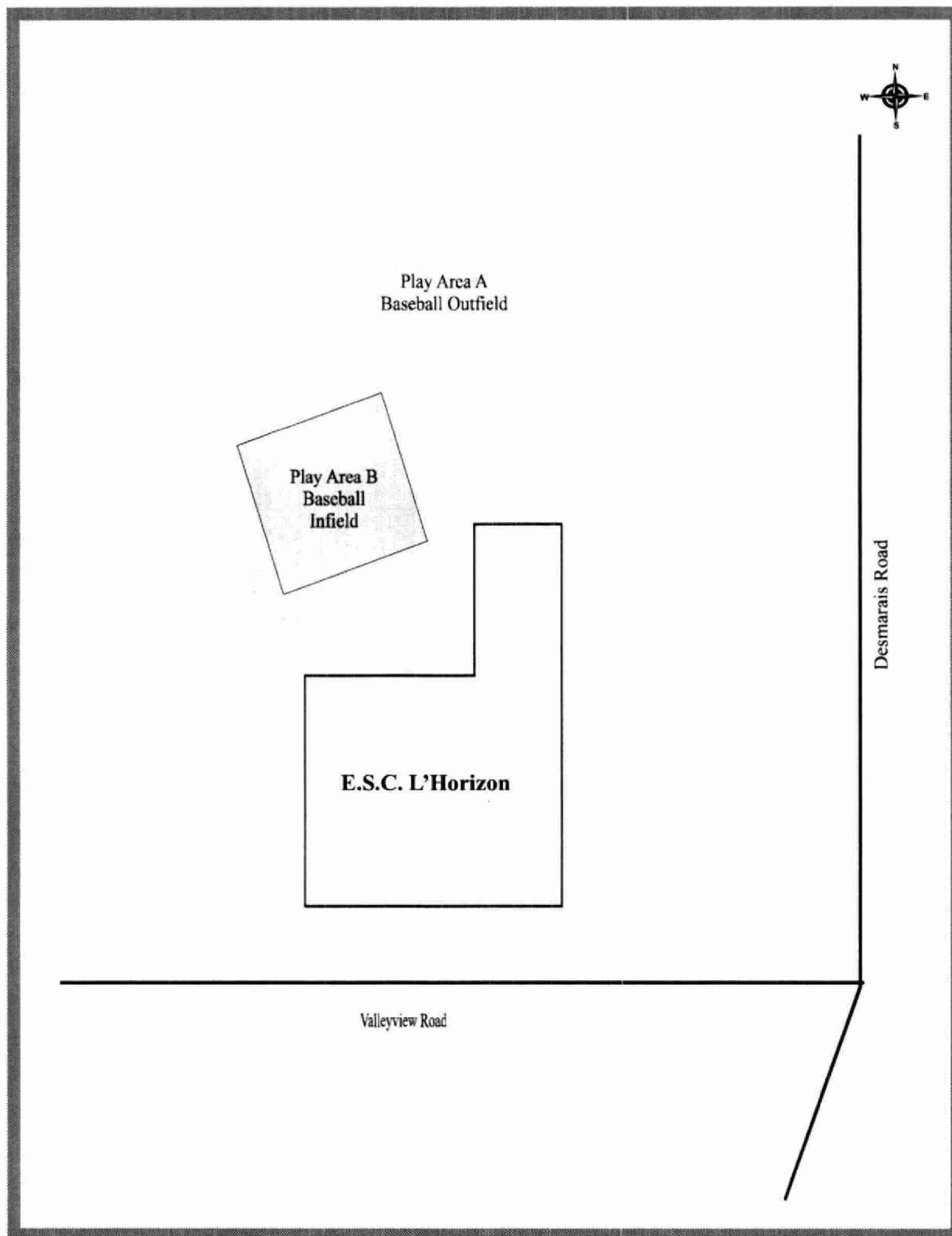


Figure B2.4.4: E.S.C. l'Horizon Sampling Locations - 2001.

2.4.5 Ecole Leon XIII - Le Conseil Scolaire Catholique du Nouvel-Ontario 1311 Rue Gemmell, Sudbury

Ecole Leon XIII was sampled on July 18, 2001. Figure B2.4.5 details the sampling locations at this property. Samples were taken from three areas on the school property. Area A corresponds to the gravel playground. Areas B and C correspond to sand samples collected from below the swing set and play structure, respectively. Due to the constant mixing and homogenous nature of the sanded areas, sand samples were collected with hand trowels to represent the 0-15 cm depth. Hand trowels were also used to collect the gravel samples to represent the 0-5 cm depth. All data were compared with the MOE Table F Ontario Soil Background Criteria and Table A Effects Based Soil Criteria (MOE 1997).

Metal concentrations were not elevated in the sand beneath the swing set and play structure. The sand present is not likely native to the school property and is believed to have been introduced when the sanded play areas were constructed. Thus the sand was not expected to have elevated metal concentrations. Nickel (Ni) and copper (Cu) concentrations were elevated above the MOE Table F Ontario Soil Background Criteria in both gravel samples. The highest nickel and copper concentrations found were 130 and 120 ppm, respectively. All other metals listed, as well as aluminum (Al), calcium (Ca), iron (Fe), magnesium (Mg), manganese (Mn), and strontium (Sr) which are not listed, were below the MOE Table F Ontario Soil Background Criteria. There were no exceedences of the MOE Table A Effects Based Soil Criteria at this property.

These soil results fall within the concentration ranges of those reported historically. Previous MOE sampling of undisturbed soils approximately 1 km southwest, 1 km northwest, and 1 km southeast of Ecole Leon XIII, Stations 11, 86, and 361, respectively, of the MOE Sudbury 2000 Report for the City of Greater Sudbury (MOE 2001), indicated nickel and copper surface soil concentration ranges of 45 to 375 and 35 to 305 ppm, respectively. Historic MOE sampling in the Sudbury area was of undeveloped surface soils which may not be representative of the materials sampled on this property.

Table B2.4.5: Concentration of 13 Elements in Soil in µg/g Collected at Ecole Leon XIII, 1311 Rue Gemmell, Sudbury - 2001																
Map ID	Station	Sample Number	Soil Depth	Sb	As	Ba	Cd	Cr	Co	Cu	Pb	Mo	Ni	Se	V	Zn
Area A gravel	5037181	14456	0 - 5	< 0.8	< 5	36	< 0.8	34	14	120	18	< 1.5	130	1	31	33
		14457	0 - 5	< 0.8	< 5	30	< 0.8	32	13	110	16	< 1.5	120	< 1	29	30
Area B sand	5037182	14458	0 - 15	< 0.8	< 5	20	< 0.8	22	5	16	3	< 1.5	20	< 1	23	21
Area C sand	5037183	14459	0 - 15	< 0.8	< 5	15	< 0.8	19	4	11	2	< 1.5	13	< 1	18	11
Table F (results in bold)				1.0	14	190	1.0	67	19	56	55	2.5	43	1.4	91	150
Table A (results in bold and				13	20	750	12	750	40	225	200	5.0	150	10	200	600
< - less than the Method Detection Limit. Al, Ca, Fe, Mg, Mn, and Sr results can be found in Table 4.1.																

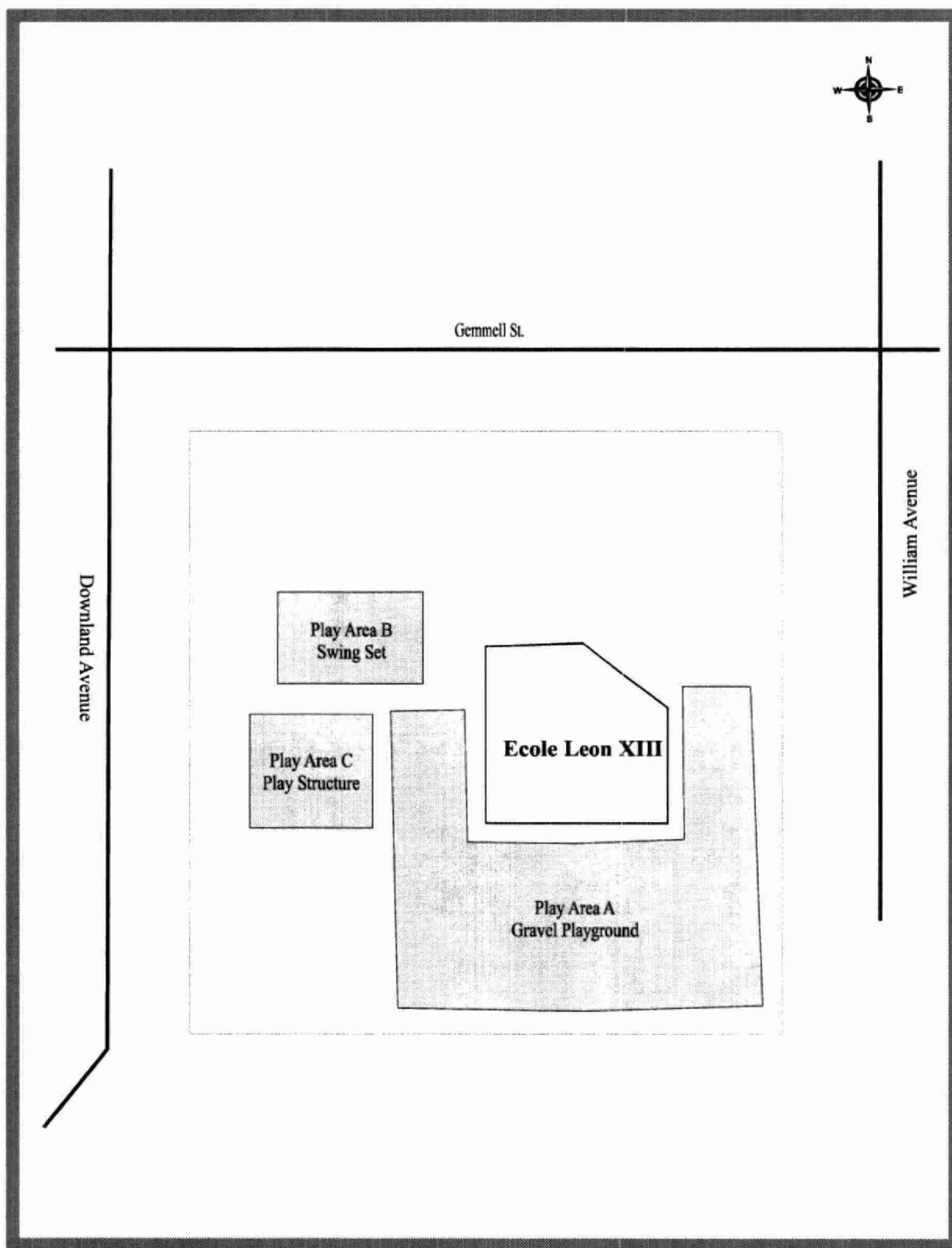


Figure B2.4.5: Ecole Leon XIII Sampling Locations - 2001.

2.4.6 Ecole St. Pierre (formerly) - Le Conseil Scolaire Catholique du Nouvel-Ontario 102 Rue Hill, Wahnapiatae

Ecole St. Pierre was sampled on July 22, 2001 and has since been sold. Figure B2.4.6 details the sampling locations at this property. Samples were taken from one area on the school property. Area A corresponds to the gravel playground on the west side of the school building. Due to the constant mixing and homogenous nature of the gravel areas, samples were collected with hand trowels to represent the 0-5 cm depth. There were not any other play areas to sample on this property. All data were compared with the MOE Table F Ontario Soil Background Criteria and Table A Effects Based Soil Criteria (MOE 1997).

Nickel (Ni) and copper (Cu) concentrations were elevated above the MOE Table F Ontario Soil Background Criteria in both gravel samples. The highest nickel and copper concentrations found were 73 and 73 ppm, respectively. All other metals listed, as well as aluminum (Al), calcium (Ca), iron (Fe), magnesium (Mg), manganese (Mn), and strontium (Sr) which are not listed, were below the MOE Table F Ontario Soil Background Criteria. There were no exceedences of the MOE Table A Effects Based Soil Criteria at this property.

These soil results fall within the lower end of the concentration ranges of those reported historically. Previous MOE sampling of undisturbed soils approximately 1 km southwest, 1 km north, and 1 km southeast of Ecole St. Pierre (formerly), Stations 64, 418, and 65, respectively, of the MOE Sudbury 2000 Report for the City of Greater Sudbury (MOE 2001), indicated nickel and copper surface soil concentration ranges of 88 to 2100 and 39 to 760 ppm, respectively. Historic MOE sampling in the Sudbury area was of undeveloped surface soils which may not be representative of the materials sampled on this property.

Table B2.4.6: Concentration of 13 Elements in Soil in µg/g Collected at Ecole St. Pierre (formerly), 102 Rue Hill, Wahnapiatae - 2001																
Map ID	Station	Sample Number	Soil Depth	Sb	As	Ba	Cd	Cr	Co	Cu	Pb	Mo	Ni	Se	V	Zn
Area A gravel	5037267	14748	0 - 5	< 0.8	6	48	< 0.8	40	11	73	13	< 1.5	73	< 1	36	33
		14749	0 - 5	< 0.8	5	33	< 0.8	36	10	58	10	< 1.5	60	< 1	34	29
Table F (results in bold)				1.0	14	190	1.0	67	19	56	55	2.5	43	1.4	91	150
Table A (results in bold and				13	20	750	12	750	40	225	200	5.0	150	10	200	600
< - less than the Method Detection Limit.				Al, Ca, Fe, Mg, Mn, and Sr results can be found in Table 4.1.												

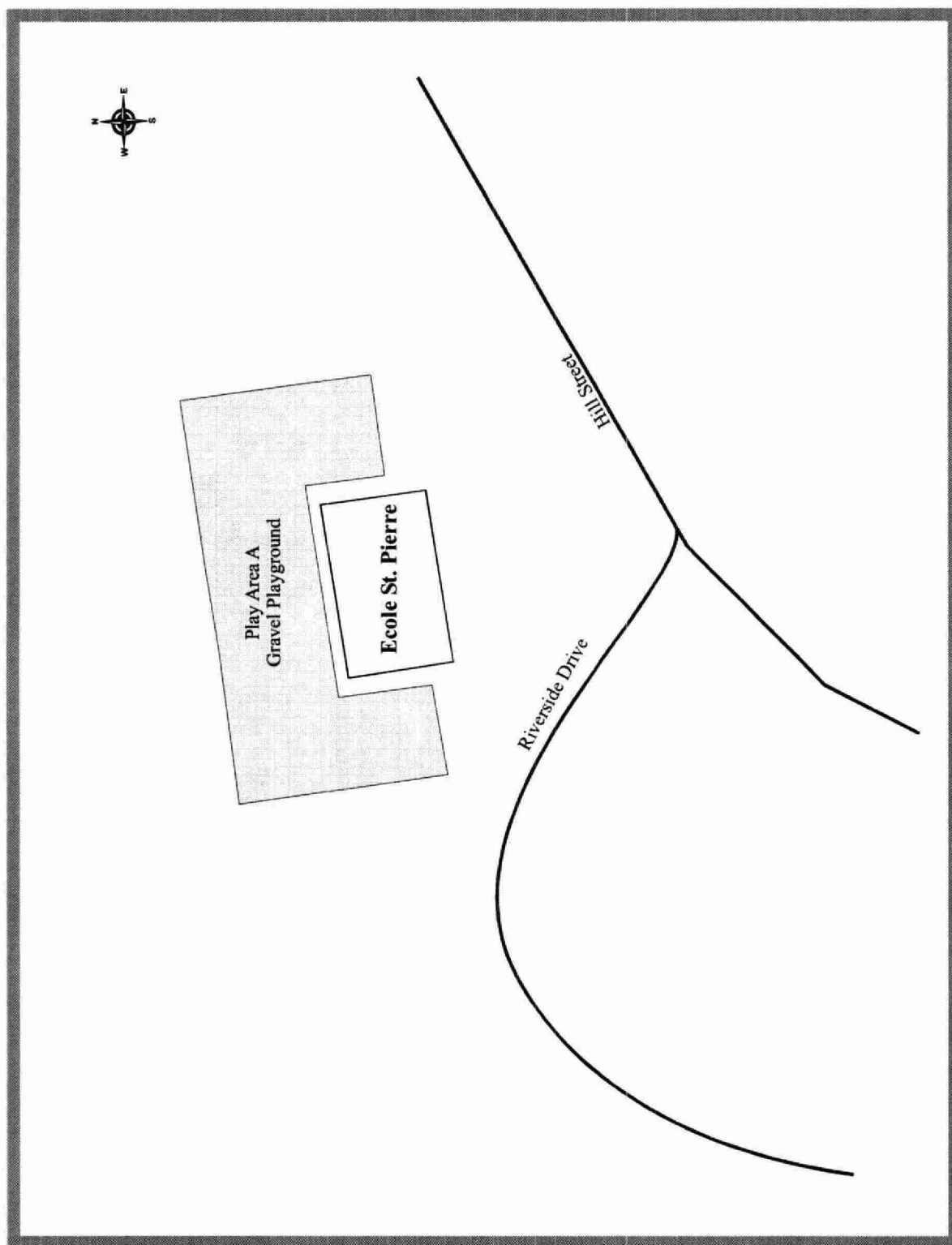


Figure B2.4.6: Ecole St. Pierre (formerly) Sampling Locations - 2001.

2.4.7 Ecole St. Remi (formerly) - Le Conseil Scolaire Catholique du Nouvel-Ontario 95 Rue Estelle, Sudbury

Ecole St. Remi was sampled on July 17, 2001 and has since been sold. Figure B2.4.7 details the sampling locations at this property. Samples were taken from one area on the school property. Area A corresponds to the gravel playground on the west side of the school building. Due to the constant mixing and homogenous nature of the gravel areas, samples were collected with hand trowels to represent the 0-5 cm depth. There were not any other play areas to sample on this property. All data were compared with the MOE Table F Ontario Soil Background Criteria and Table A Effects Based Soil Criteria (MOE 1997).

Nickel (Ni) and copper (Cu) concentrations were elevated above the MOE Table F Ontario Soil Background Criteria in both gravel samples. The highest nickel and copper concentrations found were 100 and 98 ppm, respectively. All other metals listed, as well as aluminum (Al), calcium (Ca), iron (Fe), magnesium (Mg), manganese (Mn), and strontium (Sr) which are not listed, were below the MOE Table F Ontario Soil Background Criteria. There were no exceedences of the MOE Table A Effects Based Soil Criteria at this property.

These soil results are lower than those reported historically. Previous MOE sampling of undisturbed soils approximately 1 km northeast, 0.5 km southwest, and 1 km south of Ecole St. Remi (formerly), Stations 410, 78, and 79, respectively, of the MOE Sudbury 2000 Report for the City of Greater Sudbury (MOE 2001), indicated nickel and copper surface soil concentration ranges of 110 to 360 and 110 to 350 ppm, respectively. Historic MOE sampling in the Sudbury area was of undeveloped surface soils which may not be representative of the materials sampled on this property.

Table B2.4.7: Concentration of 13 Elements in Soil in µg/g Collected at Ecole St. Remi (formerly), 95 Rue Estelle,																
Map ID	Station	Sample Number	Soil Depth	Sb	As	Ba	Cd	Cr	Co	Cu	Pb	Mo	Ni	Se	V	Zn
Area A gravel	5037149	14295	0 - 5	< 0.8	7	41	< 0.8	36	13	72	12	< 1.5	79	< 1	35	31
		14296	0 - 5	< 0.8	6	40	< 0.8	41	16	98	14	< 1.5	100	< 1	38	37
Table F (results in bold)				1.0	14	190	1.0	67	19	56	55	2.5	43	1.4	91	150
Table A (results in bold and				13	20	750	12	750	40	225	200	5.0	150	10	200	600
< - less than the Method Detection Limit.																
Al, Ca, Fe, Mg, Mn, and Sr results can be found in Table 4.1.																

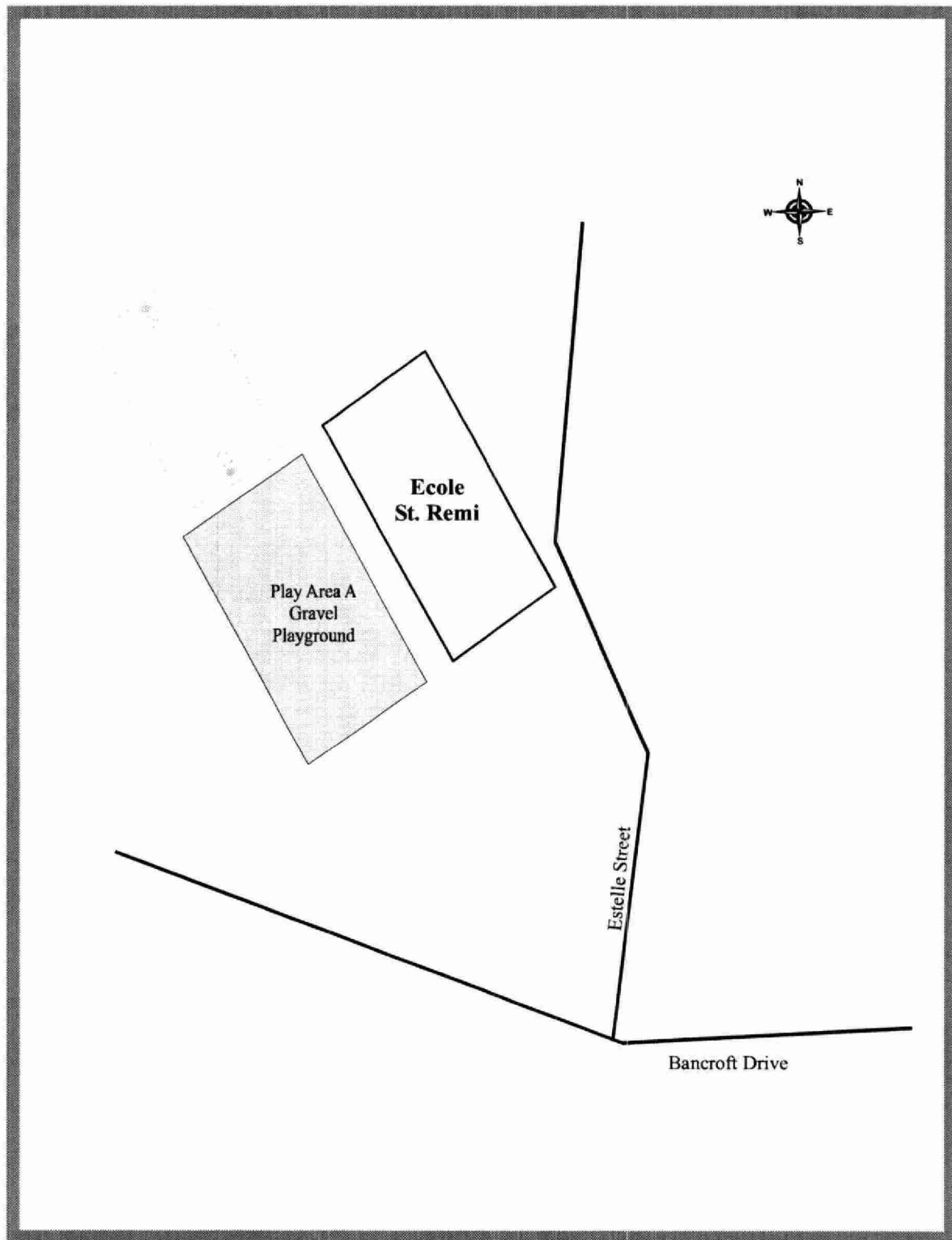


Figure B2.4.7: Ecole St. Remi (formerly) Sampling Locations - 2001.

2.4.8 Ecole Ste. Agnes (Association for Community Living) - Le Conseil Scolaire Catholique du Nouvel-Ontario, 80 Rue Landry, Azilda

Ecole Ste. Agnes was sampled on July 19, 2001. At the time of sampling, the Association for Community Living inhabited this building. Figure B2.4.8 details the sampling locations at this property. Samples were taken from two areas on the school property. Area A corresponds to the grassed area east of the gravel playground. Due to the compacted nature of the grassed area, it was only possible to sample to the 5-10 cm depth. Area B corresponds to the gravel playground east of the school building. Due to the constant mixing and homogenous nature of the gravel area, samples were collected with hand trowels to represent the 0-5 cm depth. All data were compared with the MOE Table F Ontario Soil Background Criteria and Table A Effects Based Soil Criteria (MOE 1997).

Nickel (Ni) and copper (Cu) concentrations were elevated above the MOE Table F Ontario Soil Background Criteria in almost all samples collected from this property. The highest nickel and copper concentrations, 150 and 120 ppm, respectively, were found in the surface soil of the grassed area. All other metals listed, as well as aluminum (Al), calcium (Ca), iron (Fe), magnesium (Mg), manganese (Mn), and strontium (Sr) which are not listed, were below the MOE Table F Ontario Soil Background Criteria. There were no exceedences of the MOE Table A Effects Based Soil Criteria at this property.

These soil results fall within the lower end of the concentration ranges of those reported historically. Previous MOE sampling of undisturbed soils approximately 2 km northeast, 2 km southeast, and 2 km southeast of Ecole Ste. Agnes, Stations 92, 91, and 90, respectively, of the MOE Sudbury 2000 Report for the City of Greater Sudbury (MOE 2001), indicated nickel and copper surface soil concentration ranges of 36 to 770 and 37 to 820 ppm, respectively. Historic MOE sampling in the Sudbury area was of undeveloped surface soils which may not be representative of all materials sampled on this property.

Table B2.4.8: Concentration of 13 Elements in Soil in µg/g Collected at Ecole Ste. Agnes (Association for Community Living), 80 Rue Landry, Azilda - 2001																
Map ID	Station	Sample Number	Soil Depth	Sb	As	Ba	Cd	Cr	Co	Cu	Pb	Mo	Ni	Se	V	Zn
Area A grass	5037371	14496	0 - 5	< 0.8	8	40	< 0.8	36	9	110	21	< 1.5	130	< 1	32	42
		14497	0 - 5	< 0.8	8	43	< 0.8	38	11	120	23	< 1.5	150	< 1	33	47
		14498	5 - 10	< 0.8	7	43	< 0.8	38	9	64	14	< 1.5	100	< 1	32	41
		14499	5 - 10	< 0.8	5	32	< 0.8	33	6	39	7	< 1.5	70	< 1	30	31
Area B gravel	5037372	14485	0 - 5	< 0.8	5	27	< 0.8	39	11	81	20	< 1.5	89	1	38	37
		14486	0 - 5	< 0.8	5	24	< 0.8	33	10	77	20	< 1.5	85	1	39	33
Table F (results in bold)				1.0	14	190	1.0	67	19	56	55	2.5	43	1.4	91	150
Table A (results in bold and				13	20	750	12	750	40	225	200	5.0	150	10	200	600
< - less than the Method Detection Limit.																
Al, Ca, Fe, Mg, Mn, and Sr results can be found in Table 4.1.																

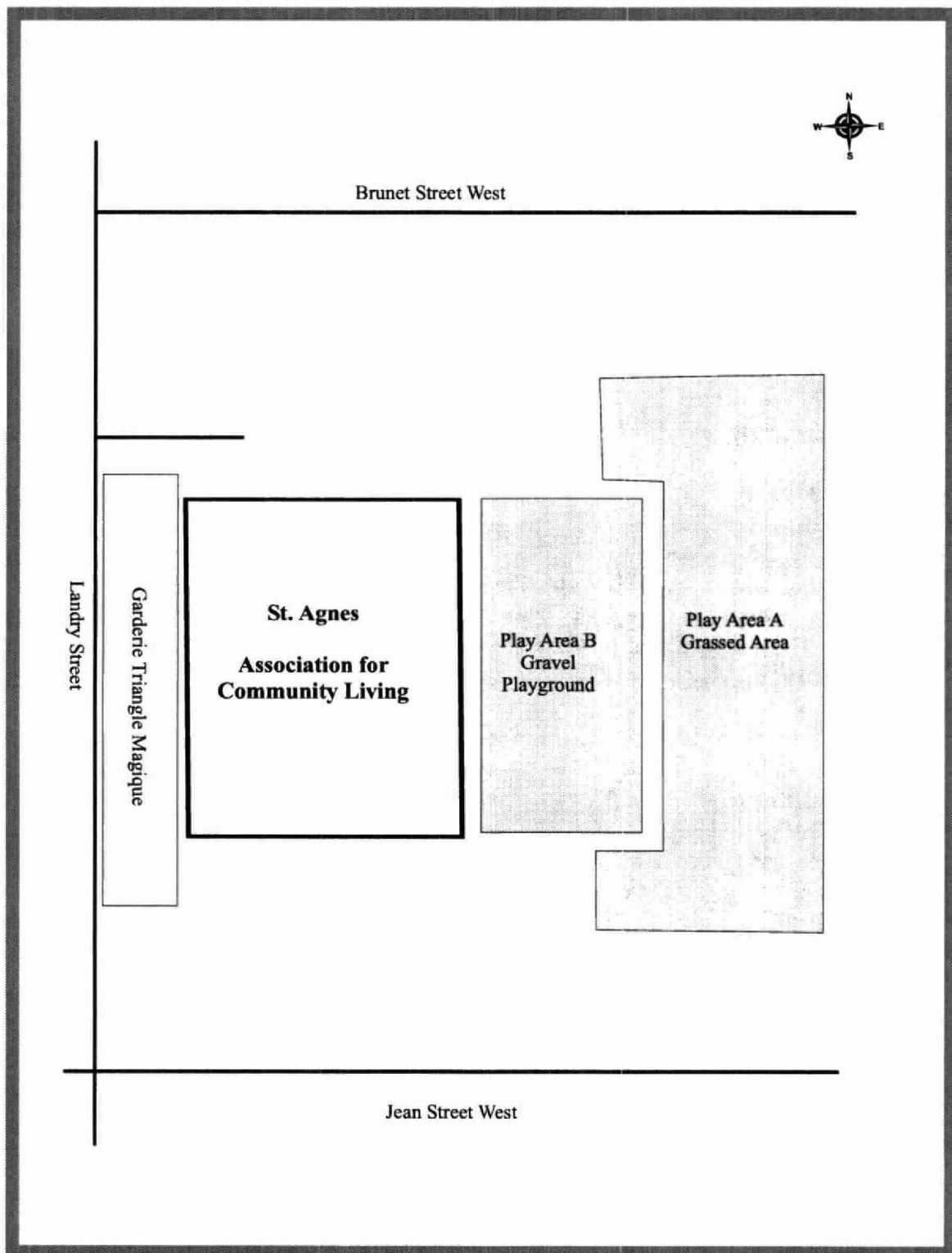


Figure B2.4.8: Ecole Ste. Agnes (Association for Community Living) Sampling Locations - 2001.

2.4.9 Felix Ricard - Le Conseil Scolaire Catholique du Nouvel-Ontario 691 Lasalle Boulevard, Sudbury

Felix Ricard was sampled on July 18, 2001. Figure B2.4.9 details the sampling locations at this property. Samples were taken from seven areas on the school property. Area A corresponds to the shared grassed baseball diamond outfields. Areas B and C correspond to the north and south baseball diamond infields, respectively. Due to the compacted nature of Areas A, B, C, and G, it was only possible to sample the surface soil layer (0-5 cm). Area D corresponds to sand samples collected from the sand boxes located west of the school building. Area E corresponds to sand samples collected from the sand boxes in the west play area north of the school building. Areas F and G correspond to sand and soil samples, respectively, collected from the east play area north of the school building. Due to the constant mixing and homogenous nature of the sanded areas, sand samples were collected with hand trowels to represent the 0-15 cm depth. All data were compared with the MOE Table F Ontario Soil Background Criteria and Table A Effects Based Soil Criteria (MOE 1997).

Metal concentrations were not elevated in the sand sample collected from the sanded play areas. The sand present is not likely native to the school property and is believed to have been introduced when the sanded play areas were constructed. Thus the sand was not expected to have elevated metal concentrations. Nickel (Ni) and copper (Cu) concentrations were elevated above the MOE Table F Ontario Soil Background Criteria in both grassed play areas sampled. The highest nickel and copper concentrations, 91 and 86 ppm, respectively, were found in the shared grassed baseball diamond outfields. All other metals listed, as well as aluminum (Al), calcium (Ca), iron (Fe), magnesium (Mg), manganese (Mn), and strontium (Sr) which are not listed, were below the MOE Table F Ontario Soil Background Criteria. There were no exceedences of the MOE Table A Effects Based Soil Criteria at this property.

These soil results fall within the lower end of the concentration ranges of those reported historically. Previous MOE sampling of undisturbed soils approximately 1 km northwest, 1 km south, and 1 km southeast of Felix Ricard, Stations 337, 85, and 86, respectively, of the MOE Sudbury 2000 Report for the City of Greater Sudbury (MOE 2001), indicated nickel and copper surface soil concentration ranges of 56 to 540 and 35 to 440 ppm, respectively. Historic MOE sampling in the Sudbury area was of undeveloped surface soils which may not be representative of the materials sampled on this property.

Table B2.4.9: Concentration of 13 Elements in Soil in µg/g Collected at Felix Ricard, 691 Lasalle Boulevard, Sudbury - 2001

Map ID	Station	Sample Number	Soil Depth	Sb	As	Ba	Cd	Cr	Co	Cu	Pb	Mo	Ni	Se	V	Zn
Area A grass	5037194	14462	0 - 5	< 0.8	< 5	34	< 0.8	26	6	86	14	< 1.5	91	< 1	25	27
		14463	0 - 5	< 0.8	< 5	27	< 0.8	25	5	50	9	< 1.5	58	< 1	26	22
Area B soil	5037195	14464	0 - 5	< 0.8	< 5	35	< 0.8	29	8	34	5	< 1.5	39	< 1	29	29
		14465	0 - 5	< 0.8	< 5	35	< 0.8	28	8	31	4	< 1.5	34	< 1	28	23
Area C soil	5037196	14466	0 - 5	< 0.8	7	43	< 0.8	33	9	33	4	< 1.5	34	< 1	33	23
		14467	0 - 5	< 0.8	< 5	42	< 0.8	32	9	32	4	< 1.5	32	< 1	32	24
Area D sand	5037197	14468	0 - 15	< 0.8	< 5	19	< 0.8	25	6	17	2	< 1.5	30	< 1	29	27
Area E sand	5037198	14469	0 - 15	< 0.8	< 5	20	< 0.8	26	7	24	3	< 1.5	31	< 1	27	19
Area F sand	5037199	14470	0 - 15	< 0.8	< 5	19	< 0.8	25	7	24	3	< 1.5	28	< 1	28	17
Area G grass	5037200	14471	0 - 5	< 0.8	< 5	29	< 0.8	27	6	43	9	< 1.5	52	< 1	27	34
		14472	0 - 5	< 0.8	6	27	< 0.8	27	6	51	9	< 1.5	56	< 1	26	37
Table F (results in bold)				1.0	14	190	1.0	67	19	56	55	2.5	43	1.4	91	150
Table A (results in bold and				13	20	750	12	750	40	225	200	5.0	150	10	200	600
< - less than the Method Detection Limit.																
Al, Ca, Fe, Mg, Mn, and Sr results can be found in Table 4.1.																

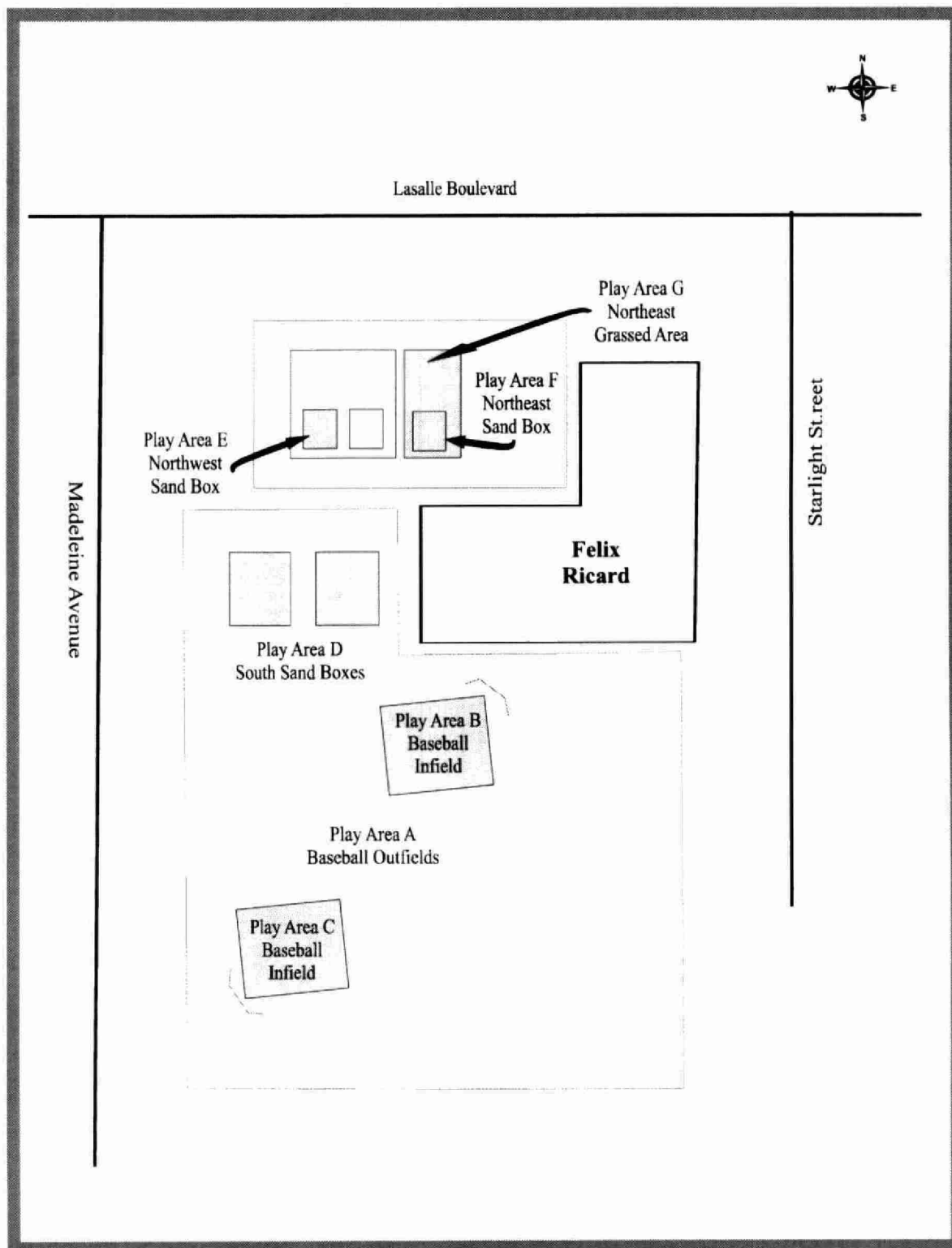


Figure B2.4.9: Felix Ricard Sampling Locations - 2001.

2.4.10 Jacques Cartier - Le Conseil Scolaire Catholique du Nouvel-Ontario C.P. 1357, 14 Rue Ontario, Chelmsford

Jacques Cartier was sampled on July 19, 2001. Figure B2.4.10 details the sampling locations at this property. Samples were taken from three areas on the school property. Area A corresponds to the gravel playground west of the school building. Areas B and C correspond to sand samples collected from the sand boxes on the west and north side of the school building, respectively. Due to the constant mixing and homogenous nature of the sanded areas, sand samples were collected with hand trowels to represent the 0-15 cm depth. Hand trowels were also used to collect the gravel samples to represent the 0-5 cm depth. All data were compared with the MOE Table F Ontario Soil Background Criteria and Table A Effects Based Soil Criteria (MOE 1997).

Metal concentrations were not elevated in the sand samples from the sanded play areas. The sand present is not likely native to the school property and is believed to have been introduced when the sanded play areas were constructed. Thus the sand was not expected to have elevated metal concentrations. None of the samples from this property were found to have metal concentrations above the MOE Table F Ontario Soil Background Criteria. In addition, aluminum (Al), calcium (Ca), iron (Fe), magnesium (Mg), manganese (Mn), and strontium (Sr) which are not listed, were below the MOE Table F Ontario Soil Background Criteria. There were no exceedences of the MOE Table A Effects Based Soil Criteria at this property.

These soil results are lower than those reported historically. Previous MOE sampling of undisturbed soils approximately 3 km northwest, 2.5 km southwest, and 5 km southeast of Jacques Cartier, Stations 386, 385, and 384, respectively, of the MOE Sudbury 2000 Report for the City of Greater Sudbury (MOE 2001), indicated nickel and copper surface soil concentration ranges of 65 to 170 and 49 to 130 ppm, respectively. Historic MOE sampling in the Sudbury area was of undeveloped surface soils which may not be representative of the materials sampled on this property.

Table B2.4.10: Concentration of 13 Elements in Soil in µg/g Collected at Jacques Cartier, C.P. 1357, 14 Rue Ontario, Chelmsford - 2001																
Map ID	Station	Sample Number	Soil Depth	Sb	As	Ba	Cd	Cr	Co	Cu	Pb	Mo	Ni	Se	V	Zn
Area A gravel	5037385	14540	0 - 5	< 0.8	< 5	27	< 0.8	29	9	38	12	< 1.5	35	< 1	32	30
		14541	0 - 5	< 0.8	< 5	25	< 0.8	31	9	42	14	< 1.5	35	< 1	37	34
Area B sand	5037386	14542	0 - 15	< 0.8	< 5	19	< 0.8	24	6	18	5	< 1.5	16	< 1	34	22
Area C sand	5037387	14543	0 - 15	< 0.8	< 5	26	< 0.8	31	8	29	6	< 1.5	23	< 1	37	33
Table F (results in bold)				1.0	14	190	1.0	67	19	56	55	2.5	43	1.4	91	150
Table A (results in bold and				13	20	750	12	750	40	225	200	5.0	150	10	200	600
< - less than the Method Detection Limit.				Al, Ca, Fe, Mg, Mn, and Sr results can be found in Table 4.1.												

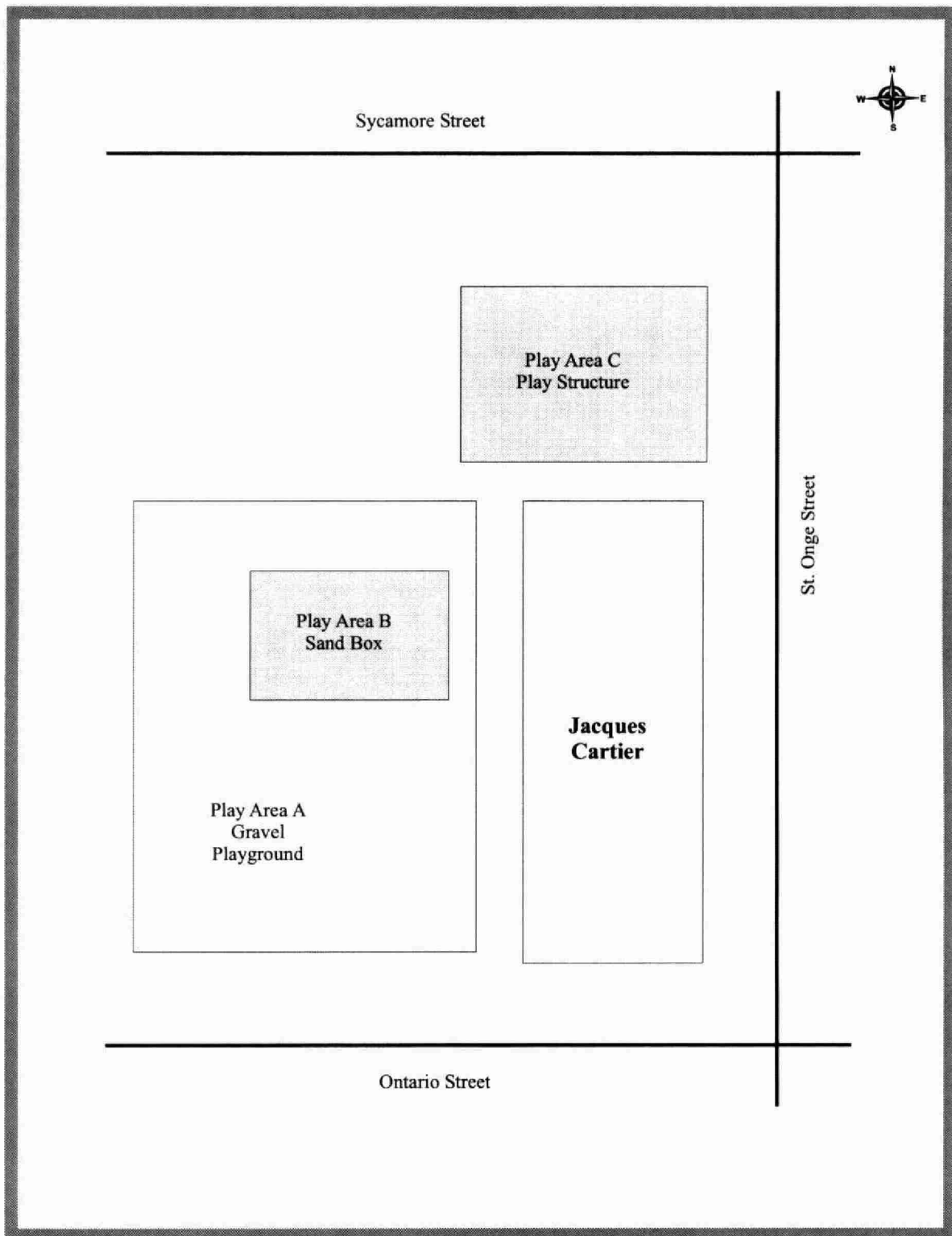


Figure B2.4.10: Jacques Cartier Sampling Locations - 2001.

2.4.11 Mgr. Cote - Le Conseil Scolaire Catholique du Nouvel-Ontario C.P. 789, 96 Rue Gaudette, Chelmsford

Mgr. Cote was sampled on July 19, 2001. Figure B2.4.11 details the sampling locations at this property. Samples were taken from two areas on the school property. Area A corresponds to the grassed area south of the gravel playground. Due to the compacted nature of the grassed area, it was only possible to sample the surface soil (0-5 cm). Area B corresponds to the gravel playground south of the school building. Due to the constant mixing and homogenous nature of the gravel area, samples were collected with hand trowels to represent the 0-5 cm depth. All data were compared with the MOE Table F Ontario Soil Background Criteria and Table A Effects Based Soil Criteria (MOE 1997).

Nickel (Ni) concentrations were elevated above the MOE Table F Ontario Soil Background Criteria in all samples collected from this property, while copper (Cu) was elevated in one replicate sample from the gravel playground. The highest nickel and copper concentrations, 78 ppm each, were found in one replicate sample from the gravel playground. All other metals listed, as well as aluminum (Al), calcium (Ca), iron (Fe), magnesium (Mg), manganese (Mn), and strontium (Sr) which are not listed, were below the MOE Table F Ontario Soil Background Criteria. There were no exceedences of the MOE Table A Effects Based Soil Criteria at this property.

These results fall within the lower end of the concentration ranges of those reported historically. Previous MOE sampling of undisturbed soils approximately 3 km northwest, 3.5 km southwest, and 5 km southeast of Mgr. Cote, Stations 386, 385, and 384, respectively, of the MOE Sudbury 2000 Report for the City of Greater Sudbury (MOE 2001), indicated nickel and copper surface soil concentration ranges of 65 to 170 and 49 to 130 ppm, respectively. Historic MOE sampling in the Sudbury area was of undeveloped surface soils which may not be representative of the materials sampled on this property.

Table B2.4.11: Concentration of 13 Elements in Soil in µg/g Collected at Mgr. Cote, C.P. 789, 96 Rue Gaudette, Chelmsford - 2001																
Map ID	Station	Sample Number	Soil Depth	Sb	As	Ba	Cd	Cr	Co	Cu	Pb	Mo	Ni	Se	V	Zn
Area A grass	5037392	14532	0 - 5	< 0.8	< 5	35	< 0.8	25	8	44	13	< 1.5	64	< 1	30	32
		14533	0 - 5	< 0.8	< 5	47	< 0.8	28	10	55	14	< 1.5	65	< 1	34	40
Area B gravel	5037393	14534	0 - 5	< 0.8	< 5	29	< 0.8	32	10	49	21	< 1.5	51	< 1	32	35
		14535	0 - 5	< 0.8	< 5	33	< 0.8	32	12	78	24	< 1.5	78	< 1	29	40
Table F(results in bold)				1.0	14	190	1.0	67	19	56	55	2.5	43	1.4	91	150
Table A(results in bold and underlined)				13	20	750	12	750	40	225	200	5.0	150	10	200	600
< - less than the Method Detection Limit.																
Al, Ca, Fe, Mg, Mn, and Sr results can be found in Table 4.1																

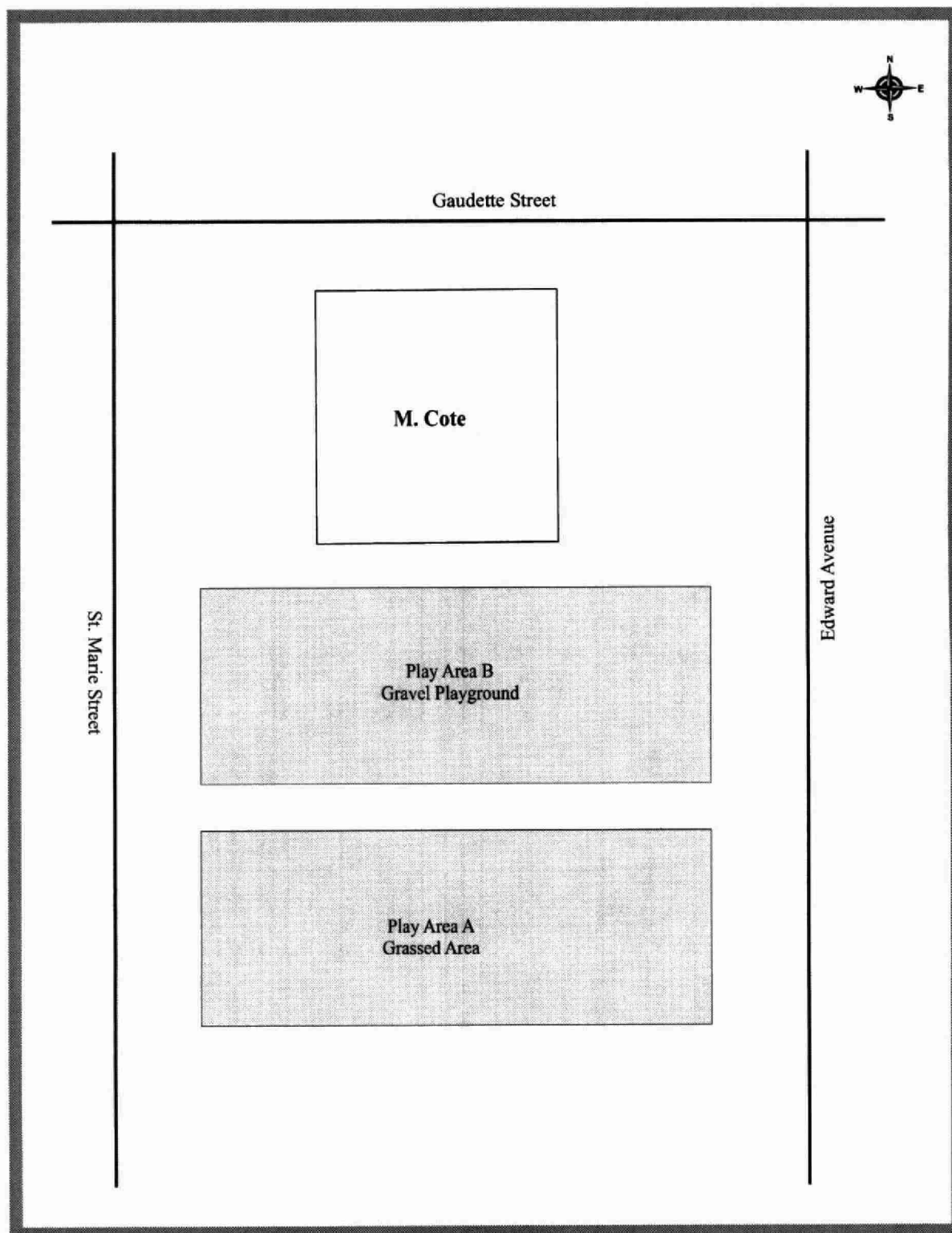


Figure B2.4.11: Mgr. Cote Sampling Locations - 2001.

2.4.12 Notre Dame - Le Conseil Scolaire Catholique du Nouvel-Ontario 4503 Rue Dennie, Hanmer

Notre Dame was sampled on July 20, 2001. Figure B2.4.12 details the sampling locations at this property. Samples were taken from three areas on the school property. Area A corresponds to the gravel playground southwest of the school building. Due to the constant mixing and homogenous nature of the gravel area, samples were collected with hand trowels to represent the 0-5 cm depth. Area B corresponds to the grassed baseball diamond outfield. Area C corresponds to the baseball diamond infield. Due to the compacted nature of the baseball diamond infield, it was only possible to sample to the surface soil (0-5 cm). All data were compared with the MOE Table F Ontario Soil Background Criteria and Table A Effects Based Soil Criteria (MOE 1997).

Nickel (Ni) and copper (Cu) concentrations were elevated above the MOE Table F Ontario Soil Background Criteria for selected sites from this property, while cobalt (Co) was elevated in one replicate sample from the gravel playground. The highest nickel concentration, 75 ppm, was found in the surface soil of the baseball diamond outfield, while the highest copper and cobalt concentrations, 80 and 32 ppm, respectively, were found in one replicate sample from the gravel playground. All other metals listed, as well as aluminum (Al), calcium (Ca), iron (Fe), magnesium (Mg), manganese (Mn), and strontium (Sr) which are not listed, were below the MOE Table F Ontario Soil Background Criteria. There were no exceedences of the MOE Table A Effects Based Soil Criteria at this property.

These nickel and copper results fall within the concentration ranges of those reported historically, while the elevated cobalt result is higher than previously reported. Previous MOE sampling of undisturbed soils approximately 1 km southwest, 2.5 km northwest, and 2 km east of Notre Dame, Stations 347, 346, and 350, respectively, of the MOE Sudbury 2000 Report for the City of Greater Sudbury (MOE 2001), indicated nickel and copper surface soil concentration ranges of 43 to 150 and 35 to 110 ppm, respectively. The highest cobalt concentration reported at these historic sites was 7.4 ppm. Historic MOE sampling in the Sudbury area was of undeveloped surface soils which may not be representative of the materials sampled on this property.

Table B2.4.12: Concentration of 13 Elements in Soil in µg/g Collected at Notre Dame, 4503 Rue Dennie, Hanmer -																
Map ID	Station	Sample Number	Soil Depth	Sb	As	Ba	Cd	Cr	Co	Cu	Pb	Mo	Ni	Se	V	Zn
Area A gravel	5037327	14628	0 - 5	< 0.8	6	36	< 0.8	39	32	80	17	< 1.5	74	< 1	35	51
		14629	0 - 5	< 0.8	< 5	48	< 0.8	41	17	56	10	< 1.5	52	< 1	38	53
Area B grass	5037328	14630	0 - 5	< 0.8	6	42	< 0.8	30	6	67	16	< 1.5	75	1	28	38
		14631	0 - 5	< 0.8	5	43	< 0.8	32	6	51	14	< 1.5	54	< 1	29	32
		14632	5 - 10	< 0.8	< 5	38	< 0.8	29	4	31	8	< 1.5	39	< 1	28	26
		14633	5 - 10	< 0.8	6	36	< 0.8	26	5	54	44	< 1.5	50	< 1	26	24
		14634	10 - 20	< 0.8	< 5	34	< 0.8	26	4	14	6	< 1.5	24	< 1	26	19
		14635	10 - 20	< 0.8	< 5	32	< 0.8	27	4	10	5	< 1.5	23	< 1	27	22
Area C soil	5037329	14636	0 - 5	< 0.8	< 5	32	< 0.8	46	11	68	12	< 1.5	50	< 1	46	48
Table F(results in bold)				1.0	14	190	1.0	67	19	56	55	2.5	43	1.4	91	150
Table A(results in bold and underlined)				13	20	750	12	750	40	225	200	5.0	150	10	200	600
< - less than the Method Detection Limit.																
Al, Ca, Fe, Mg, Mn, and Sr results can be found in Table 4.1.																

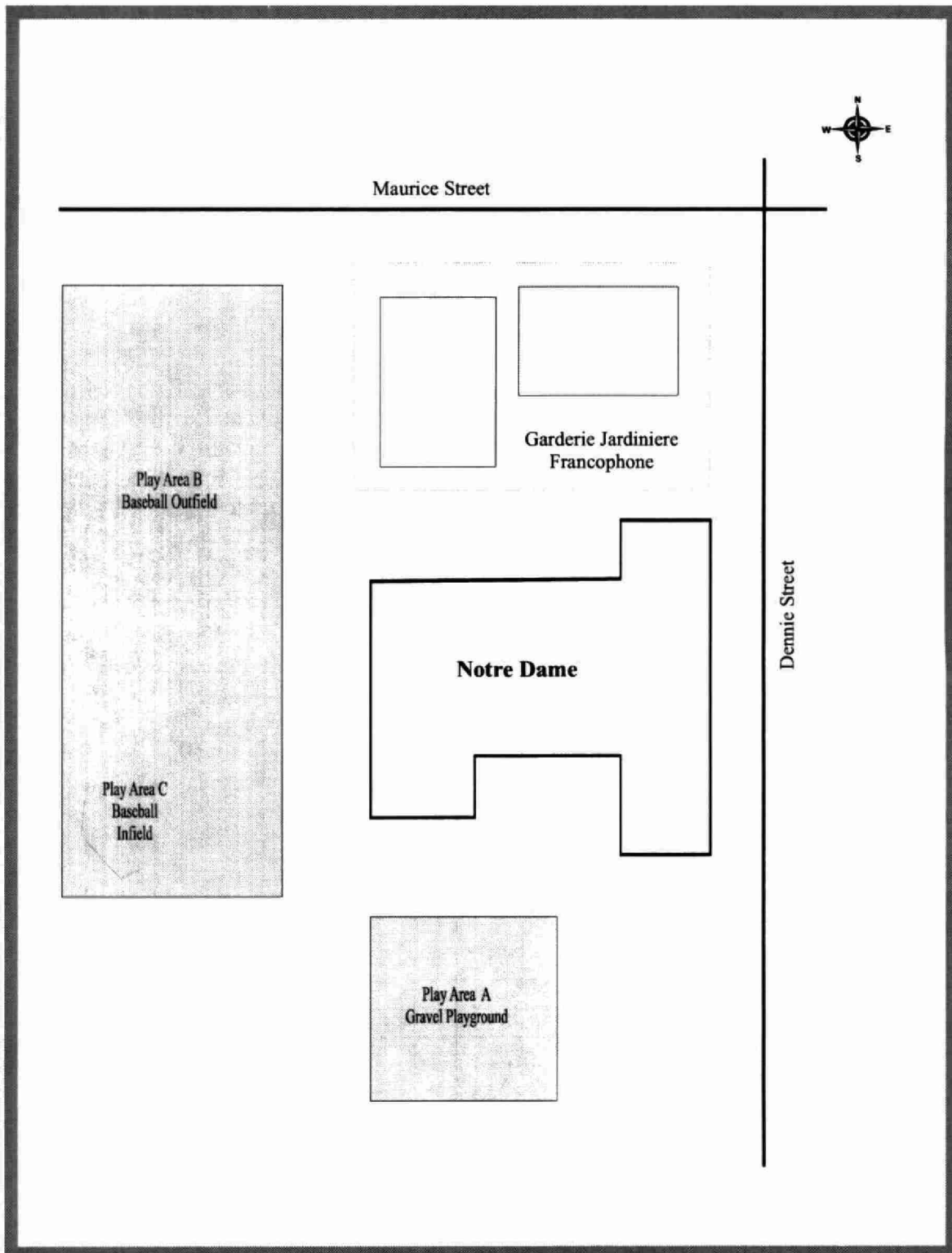


Figure B2.4.12: Notre Dame Sampling Locations - 2001.

2.4.13 Notre Dame de l'Esperance - Le Conseil Scolaire Catholique du Nouvel-Ontario 2965 Rue Hope, Val Caron

Notre Dame de l'Esperance was sampled on July 23, 2001. Figure B2.4.13 details the sampling locations at this property. Samples were taken from three areas on the school property. Area A corresponds to the grassed area west of the school building. Area B corresponds to sand samples that were collected from the four sanded play areas west and south of the school building. Area C corresponds to the gravel playground south of the school building. Due to the constant mixing and homogenous nature of the sanded areas, samples were collected with hand trowels to represent the 0-15 cm depth. Hand trowels were also used to collect the gravel samples to represent the 0-5 cm depth. All data were compared with the MOE Table F Ontario Soil Background Criteria and Table A Effects Based Soil Criteria (MOE 1997).

Metal concentrations were not elevated in the sand collected from the four sanded play areas. The sand present was not likely native to the school property and is believed to have been introduced when the play areas were constructed. Thus the sand was not expected to have elevated metal concentrations. Nickel (Ni) and copper (Cu) concentrations were elevated above the MOE Table F Ontario Soil Background Criteria for selected sites from this property. The highest nickel and copper concentrations, 120 and 75 ppm, respectively, were found in one replicate sample from the gravel playground. All other metals listed, as well as aluminum (Al), calcium (Ca), iron (Fe), magnesium (Mg), manganese (Mn), and strontium (Sr) which are not listed, were below the MOE Table F Ontario Soil Background Criteria. There were no exceedences of the MOE Table A Effects Based Soil Criteria at this property.

These results are similar to those reported historically. Previous MOE sampling of undisturbed soils approximately 1 km northwest, and 3 km southeast of Notre Dame de l'Esperance, Stations 15 and 348, respectively, of the MOE Sudbury 2000 Report for the City of Greater Sudbury (MOE 2001), indicated nickel and copper surface soil concentrations of 84 and 96 and 92 and 100 ppm, respectively. Historic MOE sampling in the Sudbury area was of undeveloped surface soils which may not be representative of the materials sampled on this property.

Table B2.4.13: Concentration of 13 Elements in Soil in µg/g Collected at Notre Dame de l'Esperance, 2965 Rue Hope, Val Caron - 2001

Map ID	Station	Sample Number	Soil Depth	Sb	As	Ba	Cd	Cr	Co	Cu	Pb	Mo	Ni	Se	V	Zn
Area A grass	5037290	14808	0 - 5	< 0.8	< 5	35	< 0.8	61	4	36	14	< 1.5	66	< 1	78	36
		14809	0 - 5	< 0.8	< 5	42	< 0.8	66	4	40	11	< 1.5	54	< 1	28	25
		14810	5 - 10	< 0.8	< 5	46	< 0.8	40	4	54	8	< 1.5	53	< 1	24	29
		14811	5 - 10	< 0.8	< 5	32	< 0.8	26	4	27	7	< 1.5	40	< 1	29	18
		14812	10 - 20	< 0.8	< 5	26	< 0.8	19	3	14	5	< 1.5	26	< 1	18	12
		14813	10 - 20	< 0.8	< 5	37	< 0.8	24	3	24	6	< 1.5	36	< 1	21	14
Area B sand	5037291	14814	0 - 15	< 0.8	< 5	36	< 0.8	28	6	21	3	< 1.5	28	< 1	35	18
		14815	0 - 15	< 0.8	< 5	31	< 0.8	36	6	21	5	< 1.5	24	< 1	40	20
Area C gravel	5037292	14816	0 - 5	< 0.8	< 5	35	< 0.8	34	10	57	7	< 1.5	53	< 1	34	31
		14817	0 - 5	< 0.8	< 5	31	< 0.8	32	11	75	7	< 1.5	120	< 1	34	30
Table F(results in bold)				1.0	14	190	1.0	67	19	56	55	2.5	43	1.4	91	150
Table A(results in bold and underlined)				13	20	750	12	750	40	225	200	5.0	150	10	200	600
< - less than the Method Detection Limit.																
Al, Ca, Fe, Mg, Mn, and Sr results can be found in Table 4.1.																

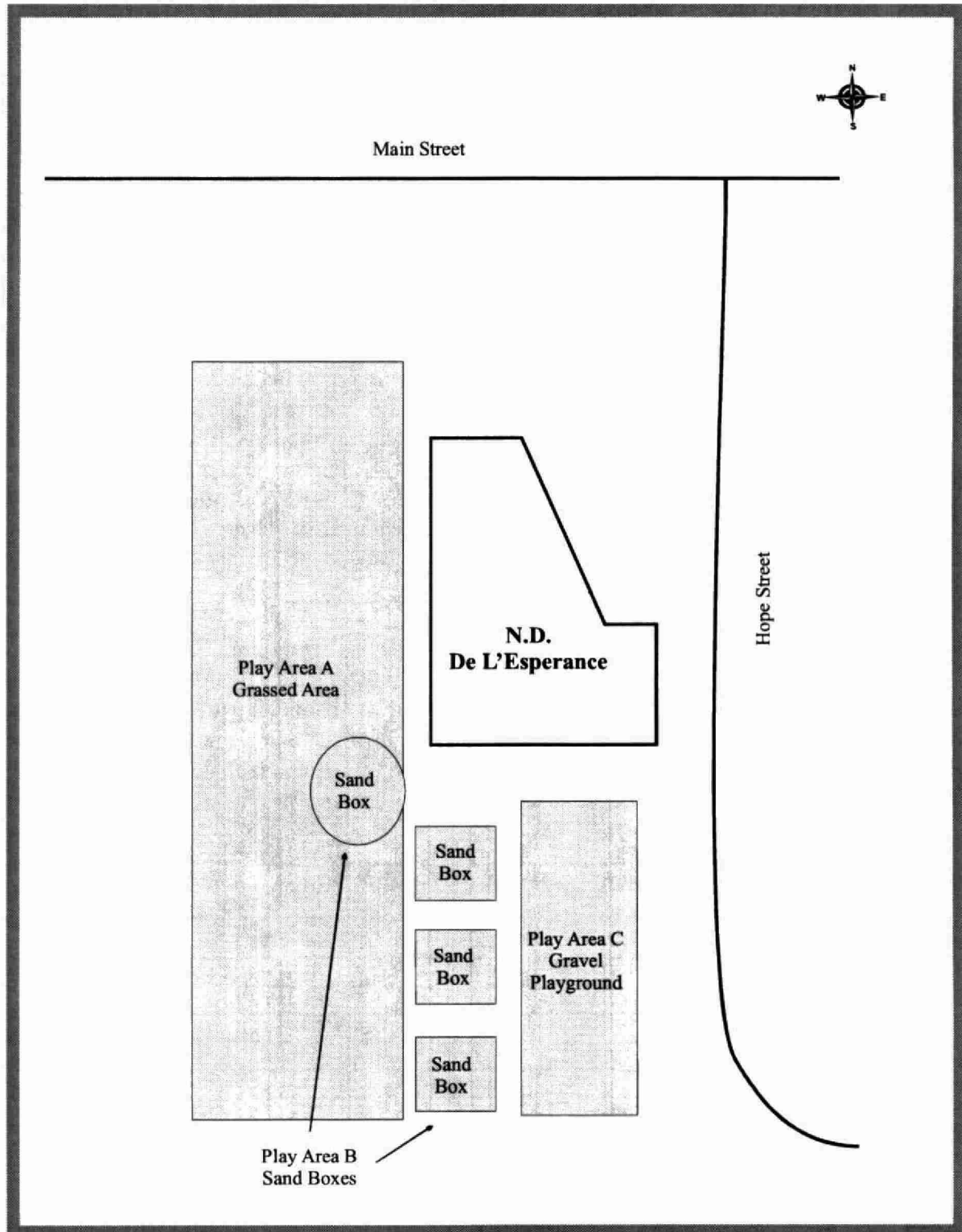


Figure B2.4.13: Notre Dame de l'Esperance Sampling Locations - 2001.

2.4.14 Notre Dame de la Merci - Le Conseil Scolaire Catholique du Nouvel-Ontario 2 Edward Avenue, Coniston

Notre Dame de la Merci was sampled on July 22, 2001. Figure B2.4.14 details the sampling locations at this property. Samples were taken from one area on the school property. Area A corresponds to the gravel playground west of the school building. Due to the constant mixing and homogenous nature of the gravel area, samples were collected with hand trowels to represent the 0-5 cm depth. All data were compared with the MOE Table F Ontario Soil Background Criteria and Table A Effects Based Soil Criteria (MOE 1997).

Nickel (Ni) concentrations were elevated above the MOE Table A Effects Based Soil Criteria, while copper (Cu) concentrations were elevated above the MOE Table F Ontario Soil Background Criteria for all samples collected from this property. The highest nickel and copper concentrations found were 190 and 200 ppm, respectively. All other metals listed, as well as aluminum (Al), calcium (Ca), iron (Fe), magnesium (Mg), manganese (Mn), and strontium (Sr) which are not listed, were below the MOE Table F Ontario Soil Background Criteria.

These results fall within the lower end of the concentration ranges of those reported historically. Previous MOE sampling of undisturbed soils approximately 1 km southwest, 1 km northeast, and 1 km southeast of Notre Dame de la Merci, Stations 81, 49, and 48, respectively, of the MOE Sudbury 2000 Report for the City of Greater Sudbury (MOE 2001), indicated nickel and copper surface soil concentration ranges of 70 to 970 and 54 to 780 ppm, respectively. Historic MOE sampling in the Sudbury area was of undeveloped surface soils which may not be representative of the materials sampled on this property.

Table B2.4.14: Concentration of 13 Elements in Soil in µg/g Collected at Notre Dame de la Merci, 2 Edward Avenue, Coniston - 2001

Map ID	Station	Sample Number	Soil Depth	Sb	As	Ba	Cd	Cr	Co	Cu	Pb	Mo	Ni	Se	V	Zn
Area A gravel	5037265	14750	0 - 5	1.5	13	44	< 0.8	42	14	200	30	< 1.5	<u>190</u>	1	34	42
		14751	0 - 5	< 0.8	8	40	< 0.8	39	15	140	17	< 1.5	<u>170</u>	< 1	35	40
Table F(results in bold)				1.0	14	190	1.0	67	19	56	55	2.5	43	1.4	91	150
Table A(results in bold and underlined)				13	20	750	12	750	40	225	200	5.0	150	10	200	600
< - less than the Method Detection Limit.																
Al, Ca, Fe, Mg, Mn, and Sr results can be found in Table 4.1.																

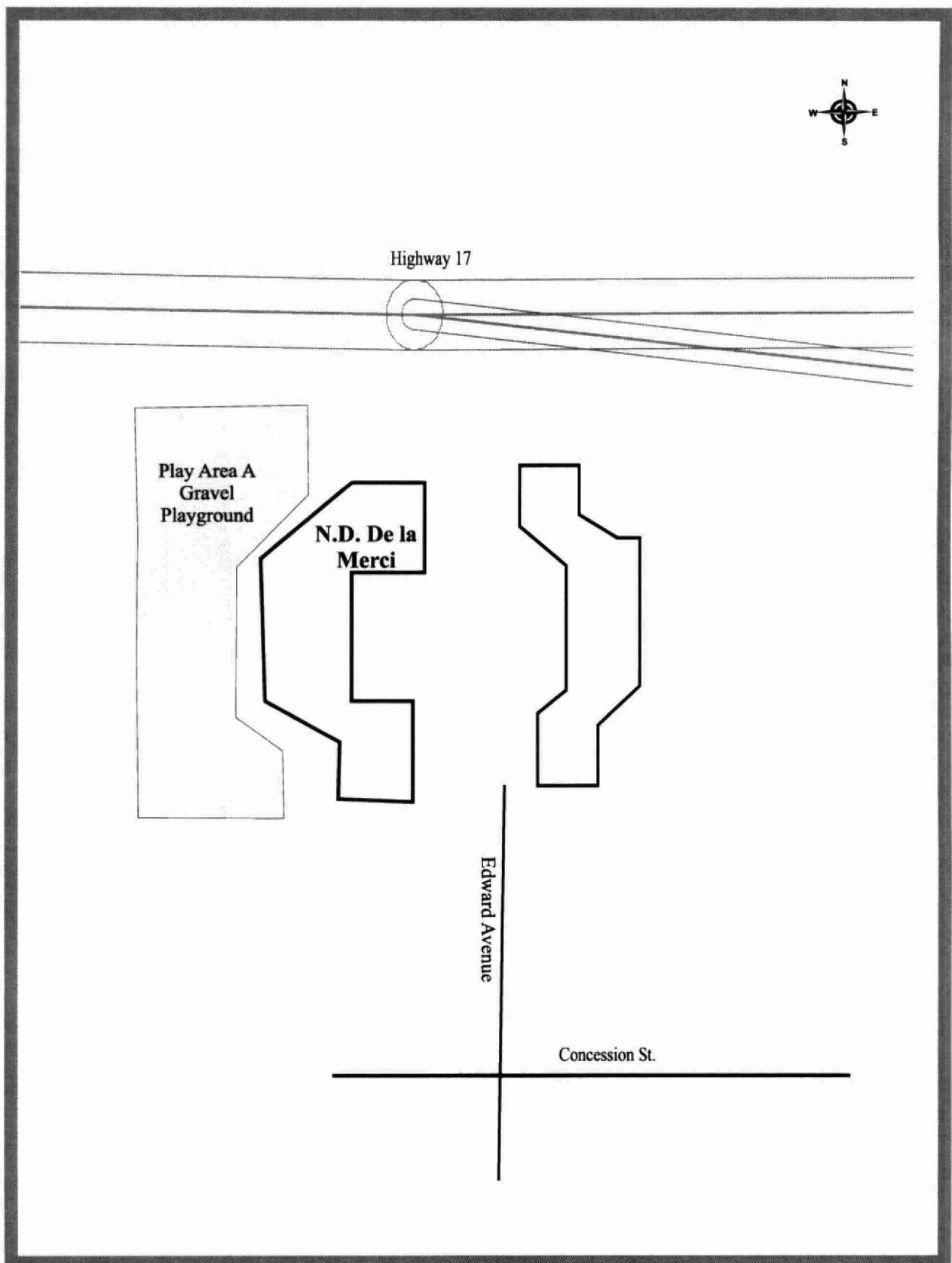


Figure B2.4.14: Notre Dame de la Merci Sampling Locations - 2001.

2.4.15 Notre Dame du Rosaire - Le Conseil Scolaire Catholique du Nouvel-Ontario 2891 Chemin Martin, Blezard Valley

Notre Dame du Rosaire was sampled on July 23, 2001. Figure B2.4.15 details the sampling locations at this property. Samples were taken from two areas on the school property. Area A corresponds to the grassed area west of the gravel playground. Area B corresponds to the gravel playground west of the school building. Due to the constant mixing and homogenous nature of the gravel areas, samples were collected with hand trowels to represent the 0-5 cm depth. All data were compared with the MOE Table F Ontario Soil Background Criteria and Table A Effects Based Soil Criteria (MOE 1997).

Nickel (Ni) and copper (Cu) concentrations were elevated above the MOE Table F Ontario Soil Background Criteria for selected sites from this property. The highest nickel and copper concentrations, 92 and 63 ppm, respectively, were found in the surface soil of the grassed play area. All other metals listed, as well as aluminum (Al), calcium (Ca), iron (Fe), magnesium (Mg), manganese (Mn), and strontium (Sr) which are not listed, were below the MOE Table F Ontario Soil Background Criteria. There were no exceedences of the MOE Table A Effects Based Soil Criteria at this property.

These results fall within the lower end of the concentration ranges of those reported historically. Previous MOE sampling of undisturbed soils approximately 2 km northeast, and 1 km south of Notre Dame du Rosaire, Stations 15 and 341, respectively, of the MOE Sudbury 2000 Report for the City of Greater Sudbury (MOE 2001), indicated nickel and copper surface soil concentration ranges of 28 to 210 and 40 to 180 ppm, respectively. Historic MOE sampling in the Sudbury area was of undeveloped surface soils which may not be representative of the materials sampled on this property.

Table B2.4.15: Concentration of 13 Elements in Soil in µg/g Collected at Notre Dame du Rosaire, 2891 Chemin Martin, Blezard Valley - 2001

Map ID	Station	Sample Number	Soil Depth	Sb	As	Ba	Cd	Cr	Co	Cu	Pb	Mo	Ni	Se	V	Zn
Area A grass	5037304	14800	0 - 5	< 0.8	< 5	30	< 0.8	26	6	63	14	< 1.5	82	< 1	28	26
		14801	0 - 5	< 0.8	< 5	41	< 0.8	24	6	35	17	< 1.5	92	< 1	29	27
		14802	5 - 10	< 0.8	< 5	29	< 0.8	38	4	26	7	< 1.5	37	< 1	45	24
		14803	5 - 10	< 0.8	< 5	28	< 0.8	51	5	28	8	< 1.5	38	< 1	65	41
		14804	10 - 20	< 0.8	< 5	38	< 0.8	56	5	37	5	< 1.5	25	< 1	63	30
		14805	10 - 20	< 0.8	< 5	48	< 0.8	54	5	51	8	< 1.5	44	< 1	61	38
Area B gravel	5037305	14806	0 - 5	< 0.8	< 5	42	< 0.8	52	10	36	9	< 1.5	45	< 1	58	41
		14807	0 - 5	< 0.8	< 5	36	< 0.8	56	10	40	8	< 1.5	47	< 1	69	38
Table F(results in bold)				1.0	14	190	1.0	67	19	56	55	2.5	43	1.4	91	150
Table A(results in bold and underlined)				13	20	750	12	750	40	225	200	5.0	150	10	200	600
< - less than the Method Detection Limit.								Al, Ca, Fe, Mg, Mn, and Sr results can be found in Table 4.1.								

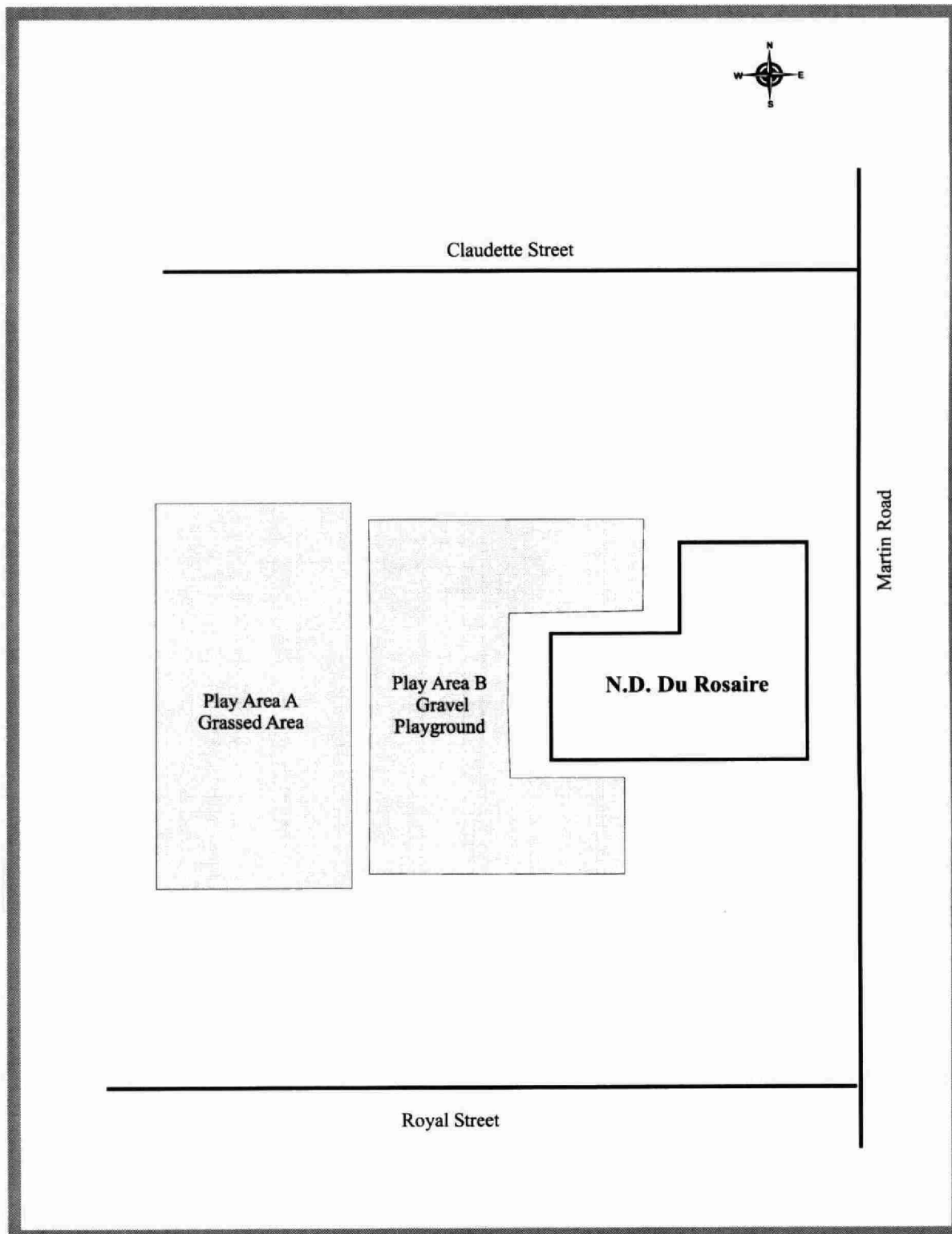


Figure B2.4.15: Notre Dame du Rosaire Sampling Locations - 2001.

2.4.16 St. Augustin - Le Conseil Scolaire Catholique du Nouvel-Ontario 648 Promenade O'Neil West, Garson

St. Augustin was sampled on July 18, 2001. Figure B2.4.16 details the sampling locations at this property. Samples were taken from three areas on the school property. Area A corresponds to sand samples that were collected from the sand boxes north of the school building. Areas B and C correspond to the west and east gravel playgrounds, respectively. Due to the constant mixing and homogenous nature of the sanded areas, samples were collected with hand trowels to represent the 0-15 cm depth. Hand trowels were also used to collect the gravel samples to represent the 0-5 cm depth. All data were compared with the MOE Table F Ontario Soil Background Criteria and Table A Effects Based Soil Criteria (MOE 1997).

Metal concentrations were not elevated in the sand collected from the sanded play area. The sand present is not likely native to the school property and is believed to have been introduced when the sanded play areas were constructed. Thus the sand was not expected to have elevated metal concentrations. Nickel (Ni) and copper (Cu) concentrations were elevated above the MOE Table F Ontario Soil Background Criteria in the gravel playground samples. The highest nickel and copper concentrations, 67 and 71 ppm, respectively, were found in the east gravel playground sample. All other metals listed, as well as aluminum (Al), calcium (Ca), iron (Fe), magnesium (Mg), manganese (Mn), and strontium (Sr) which are not listed, were below the MOE Table F Ontario Soil Background Criteria. There were no exceedences of the MOE Table A Effects Based Soil Criteria at this property.

These results fall within the lower end of the concentration ranges of those reported historically. Previous MOE sampling of undisturbed soils approximately 1 km northwest, and 2 km northwest of St. Augustin, Stations 40 and 39, respectively, of the MOE Sudbury 2000 Report for the City of Greater Sudbury (MOE 2001), indicated nickel and copper surface soil concentration ranges of 37 to 120 and 24 to 200 ppm, respectively. Historic MOE sampling in the Sudbury area was of undeveloped surface soils which may not be representative of the materials sampled on this property.

Table B2.4.16: Concentration of 13 Elements in Soil in µg/g Collected at St. Augustin, 648 Promenade O' Neil West, Garson - 2001																	
Map ID	Station	Sample Number	Soil Depth	Sb	As	Ba	Cd	Cr	Co	Cu	Pb	Mo	Ni	Se	V	Zn	
Area A sand	5037269	14432	0 - 15	< 0.8	6	37	< 0.8	25	7	21	4	< 1.5	21	< 1	27	18	
		14433	0 - 15	< 0.8	7	27	< 0.8	22	7	22	4	< 1.5	22	< 1	25	17	
Area B gravel	5037270	14434	0 - 5	< 0.8	6	29	< 0.8	27	8	44	8	< 1.5	50	< 1	26	24	
		14435	0 - 5	< 0.8	7	28	< 0.8	27	8	44	9	< 1.5	51	< 1	28	23	
Area C gravel	5037271	14436	0 - 5	< 0.8	9	38	< 0.8	29	7	57	12	< 1.5	56	< 1	32	20	
		14437	0 - 5	< 0.8	9	40	< 0.8	30	7	71	14	< 1.5	67	< 1	30	22	
Table F(results in bold)				1.0	14	190	1.0	67	19	56	55	2.5	43	1.4	91	150	
Table A(results in bold and underlined)				13	20	750	12	750	40	225	200	5.0	150	10	200	600	
< - less than the Method Detection Limit.																	
Al, Ca, Fe, Mg, Mn, and Sr results can be found in Table 4.1.																	

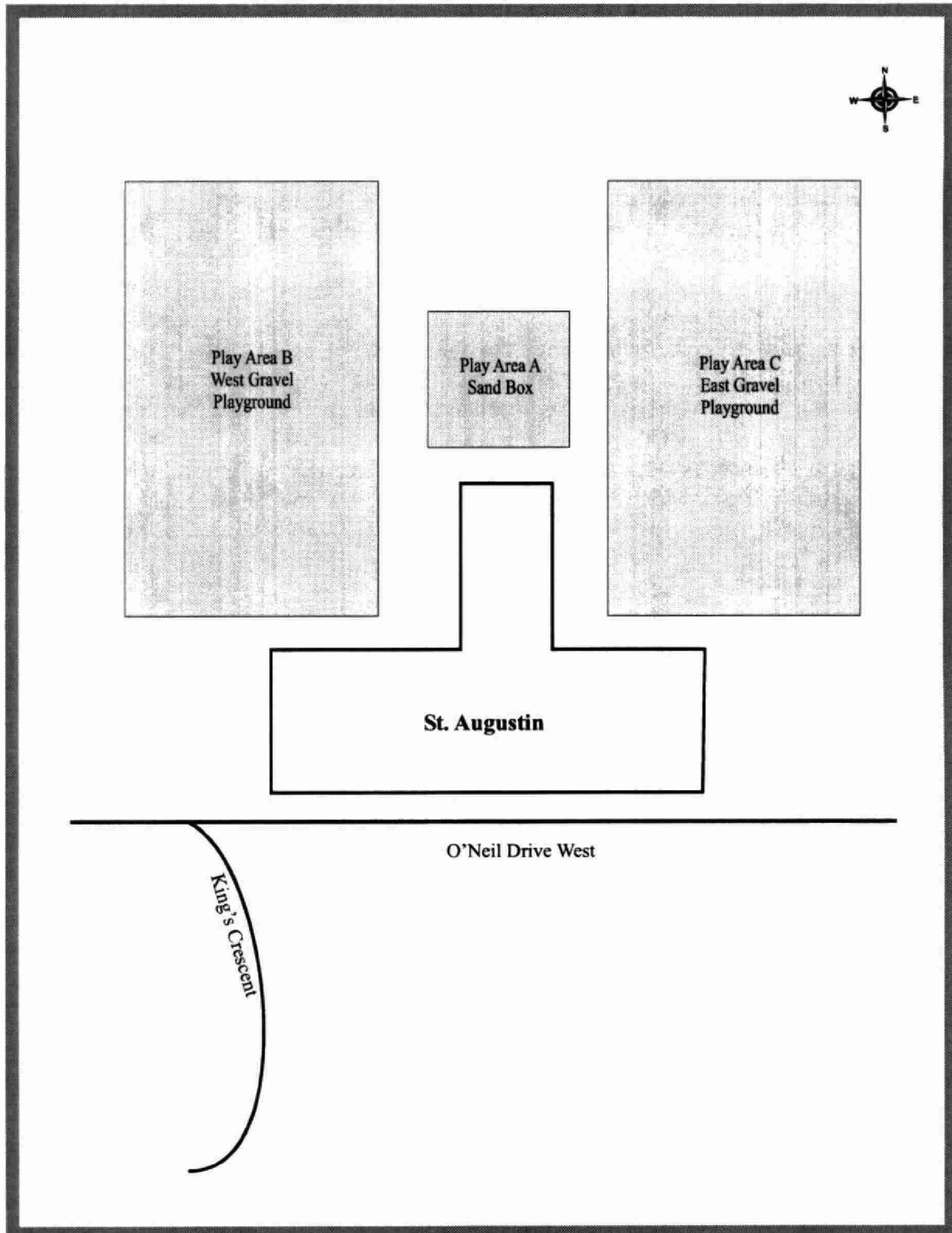


Figure B2.4.16: St. Augustin Sampling Locations - 2001.

2.4.17 St. Denis - Le Conseil Scolaire Catholique du Nouvel-Ontario 347 Rue Hyland, Sudbury

St. Denis was sampled on July 5, 2001. Figure B2.4.17 details the sampling locations at this property. Samples were taken from three areas on the school property. Area A corresponds to the grassed hill on the south side of the school property. Area B corresponds to the gravel playground south of the school building. Area C corresponds to sand samples taken from beneath the play structure. Due to the constant mixing and homogenous nature of the sanded areas, samples were collected with hand trowels to represent the 0-15 cm depth. Hand trowels were also used to collect the gravel samples to represent the 0-5 cm depth. All data were compared with the MOE Table F Ontario Soil Background Criteria and Table A Effects Based Soil Criteria (MOE 1997).

Metal concentrations were not elevated in the sand beneath the play structure. The sand present is not likely native to the school property and is believed to have been introduced when the play area was constructed. Thus the sand was not expected to have elevated metal concentrations. Nickel (Ni) concentrations were elevated above the MOE Table F Ontario Soil Background Criteria for all other samples from this property and above MOE Table A Effects Based Soil Criteria at selected sites. Copper (Cu) concentrations were elevated above the MOE Table F Ontario Soil Background Criteria in the surface soil samples collected from the grassed hill and from the gravel playground. The highest nickel and copper concentrations, 160 and 200 ppm, respectively, were found in the surface soil of the grassed play area. All other metals listed, as well as aluminum (Al), calcium (Ca), iron (Fe), magnesium (Mg), manganese (Mn), and strontium (Sr) which are not listed, were below the MOE Table F Ontario Soil Background Criteria.

Table B2.4.17: Concentration of 13 Elements in Soil in µg/g Collected at St. Denis, 347 Rue Hyland, Sudbury - 2001																
Map ID	Station	Sample Number	Soil Depth	Sb	As	Ba	Cd	Cr	Co	Cu	Pb	Mo	Ni	Se	V	Zn
Area A grass	5037074	14149	0 - 5	< 0.8	< 5	36	< 0.8	26	8	200	25	< 1.5	150	< 1	25	65
		14150	0 - 5	< 0.8	< 5	45	< 0.8	26	9	180	23	< 1.5	<u>160</u>	2	27	130
		14151	5 - 10	< 0.8	< 5	39	< 0.8	24	5	52	9	< 1.5	67	1	26	42
		14152	5 - 10	< 0.8	< 5	39	< 0.8	26	5	41	9	< 1.5	60	< 1	27	31
		14153	10 - 20	< 0.8	< 5	41	< 0.8	24	6	49	10	< 1.5	74	< 1	25	28
		14154	10 - 20	< 0.8	< 5	41	< 0.8	24	5	36	9	< 1.5	60	< 1	27	33
Area B gravel	5037075	14155	0 - 5	< 0.8	< 5	28	< 0.8	31	12	71	7	< 1.5	72	< 1	31	29
		14156	0 - 5	< 0.8	< 5	26	< 0.8	30	14	87	10	< 1.5	91	< 1	28	31
Area C sand	5037076	14157	0 - 15	< 0.8	< 5	18	< 0.8	28	9	34	4	< 1.5	37	< 1	26	23
		14158	0 - 15	< 0.8	< 5	18	< 0.8	29	8	29	3	< 1.5	32	< 1	27	25
Table F(results in bold)				1.0	14	190	1.0	67	19	56	55	2.5	43	1.4	91	150
Table A(results in bold and underlined)				13	20	750	12	750	40	225	200	5.0	150	10	200	600
< - less than the Method Detection Limit.																
Al, Ca, Fe, Mg, Mn, and Sr results can be found in Table 4.1.																

These results fall within the lower end of the concentration ranges of those reported historically. Previous MOE sampling of undisturbed soils approximately 1 km east, 1 km northwest, and 1 km southwest of St. Denis, Stations 74, 378, and 73, respectively, of the MOE Sudbury 2000 Report for the City of Greater Sudbury (MOE 2001), indicated nickel and copper surface soil concentration ranges of 145 to 790 and 158 to 740 ppm, respectively. Historic MOE sampling in the Sudbury area was of undeveloped surface soils which may not be representative of the materials sampled on this property.

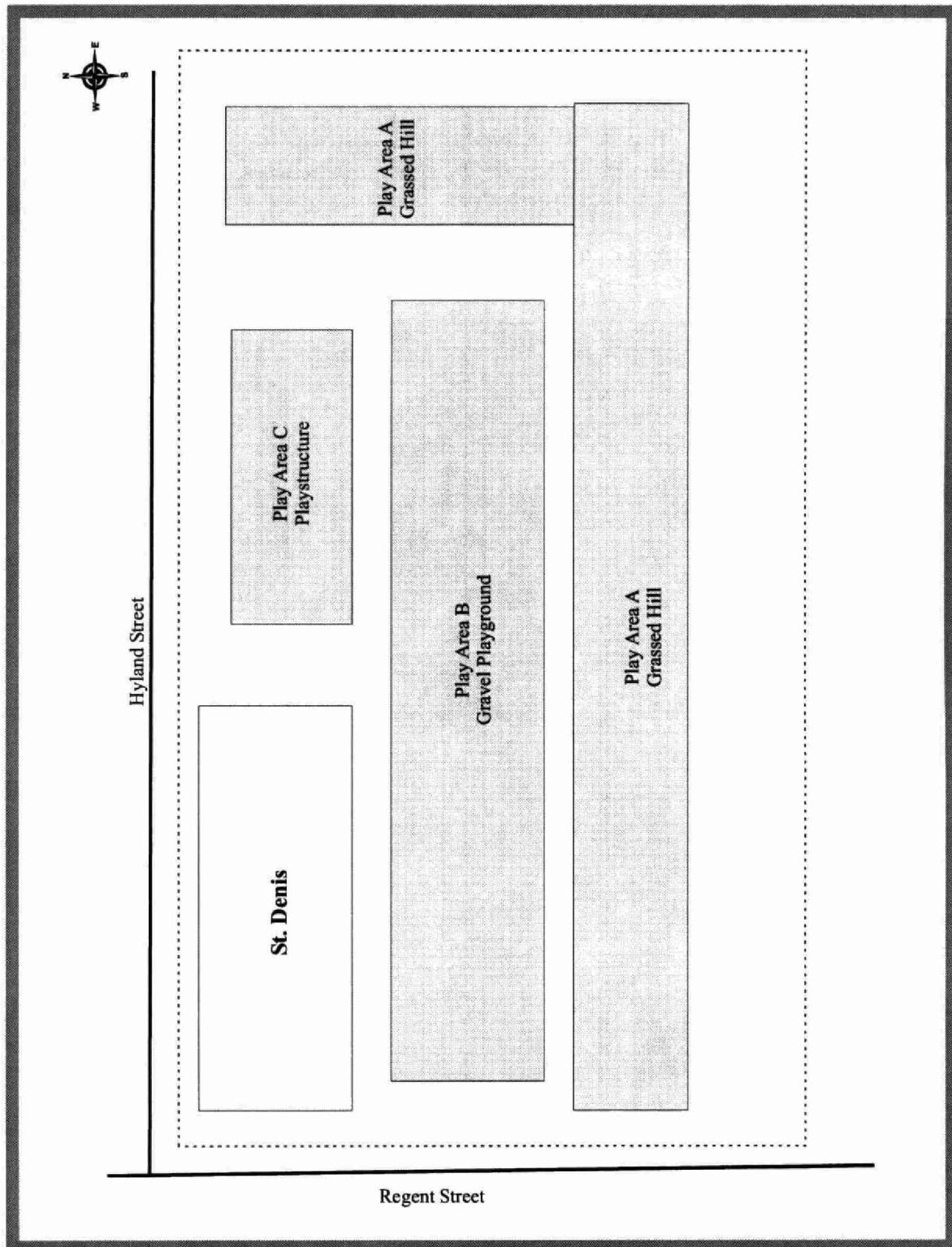


Figure B2.4.17: St. Denis Soil Sampling Locations - 2001.

2.4.18 St. Dominique - Le Conseil Scolaire Catholique du Nouvel-Ontario 2096 Rue Montfort, Sudbury

St. Dominique was sampled on July 18, 2001. Figure B2.4.18 details the sampling locations at this property. Samples were taken from five areas on the school property. Area A corresponds to the grassed area north of the school building. Area B corresponds to sand samples collected from the south sand box. Area C corresponds to the grass and gravel baseball diamond outfield. Due to the compacted nature of Areas A and C, it was only possible to sample to the 5 - 10 cm depth in the grassed play area and the surface soil layer (0-5 cm) in the outfield. Area D corresponds to the gravel baseball diamond infield. Area E corresponds to the pea gravel collected from the north sand boxes. Due to the constant mixing and homogenous nature of the "sand box" areas, samples were collected with hand trowels to represent the 0-15 cm depth. Hand trowels were also used to collect the gravel samples to represent the 0-5 cm depth. All data were compared with the MOE Table F Ontario Soil Background Criteria and Table A Effects Based Soil Criteria (MOE 1997).

Elevated metal concentrations were found in the sand and pea gravel samples collected from the south and north "sand box" play areas, respectively. Although it is possible that the sand is native to the school property; it is believed to have been introduced when the play areas were constructed. The sand and pea gravel samples were not expected to have elevated metal concentrations. Nickel (Ni) concentrations were elevated above the MOE Table F Ontario Soil Background Criteria for all surface samples collected from this property and the MOE Table A Effects Based Soil Criteria at selected sites. Copper (Cu) was also elevated above the MOE Table F Ontario Soil Background Criteria at selected surface soil sites. The highest nickel and copper concentrations, 190 and 170 ppm, respectively, were found in the sand samples from the south sand box. It is believed that soil particles may have migrated into these play areas and are responsible for the elevated metal concentrations. All other metals listed, as well as aluminum (Al), calcium (Ca), iron (Fe), magnesium (Mg), manganese (Mn), and strontium (Sr) which are not listed, were below the MOE Table F Ontario Soil Background Criteria.

These soil results fall within the concentration ranges of those reported historically. Previous MOE sampling of undisturbed soils approximately 1 km northeast and 1 km west of St. Dominique, Stations 42 and 43, respectively, of the MOE Sudbury 2000 Report for the City of Greater Sudbury (MOE 2001), indicated nickel and copper surface soil concentration ranges of 28 to 190 and 26 to 200 ppm, respectively. Historic MOE sampling in the Sudbury area was of undeveloped surface soils which may not be representative of the materials sampled on this property.

Table B2.4.18: Concentration of 13 Elements in Soil in µg/g Collected at St. Dominique, 2096 Rue Montfort, Sudbury - 2001

Map ID	Station	Sample Number	Soil Depth	Sb	As	Ba	Cd	Cr	Co	Cu	Pb	Mo	Ni	Se	V	Zn
Area A grass	5037155	14381	0 - 5	< 0.8	< 5	46	< 0.8	27	11	74	19	< 1.5	110	< 1	27	28
		14382	0 - 5	< 0.8	< 5	49	< 0.8	28	13	77	21	< 1.5	120	< 1	27	30
		14389	5 - 10	< 0.8	< 5	20	< 0.8	24	6	14	2	< 1.5	23	< 1	28	15
		14390	5 - 10	< 0.8	< 5	23	< 0.8	27	6	16	3	< 1.5	24	< 1	34	16
Area B sand	5037156	14383	0 - 15	< 0.8	8	47	< 0.8	34	16	170	21	< 1.5	<u>190</u>	< 1	36	40
Area C grass	5037157	14385	0 - 5	< 0.8	< 5	43	< 0.8	32	8	110	18	< 1.5	130	< 1	29	33
		14386	0 - 5	< 0.8	< 5	42	< 0.8	32	7	100	12	< 1.5	77	< 1	31	27
Area D gravel	5037158	14387	0 - 5	< 0.8	< 5	41	< 0.8	34	7	50	11	< 1.5	73	< 1	33	26
		14388	0 - 5	< 0.8	< 5	35	< 0.8	34	7	55	11	< 1.5	78	< 1	32	27
Area E gravel	5037159	14384	0 - 5	< 0.8	8	37	< 0.8	31	16	170	23	< 1.5	<u>170</u>	< 1	33	36
Table F(results in bold)				1.0	14	190	1.0	67	19	56	55	2.5	43	1.4	91	150
Table A(results in bold and underlined)				13	20	750	12	750	40	225	200	5.0	150	10	200	600
< - less than the Method Detection Limit.				Al, Ca, Fe, Mg, Mn, and Sr results can be found in Table 4.1.												

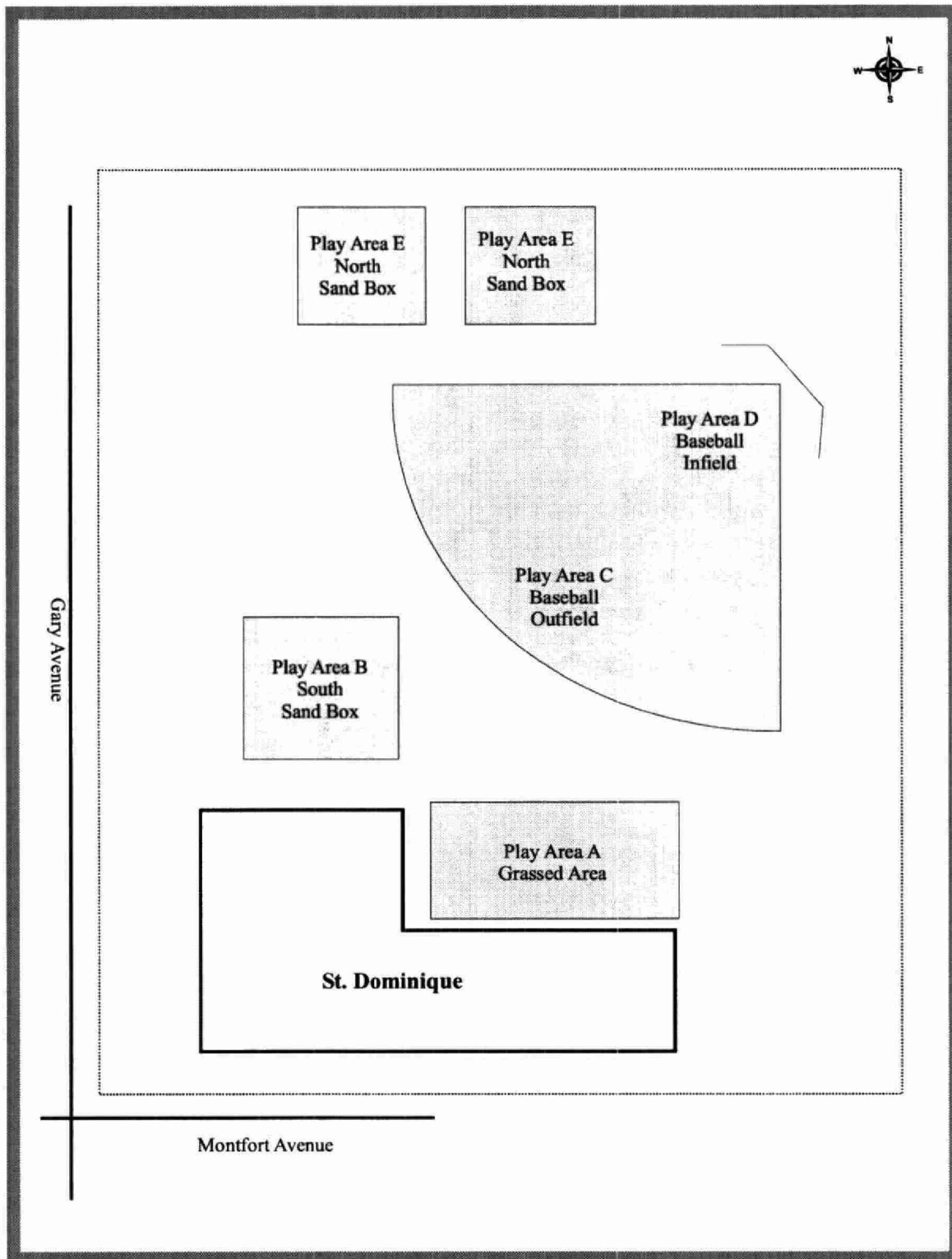


Figure B2.4.18: St. Dominique Sampling Locations - 2001.

2.4.19 St. Etienne - Le Conseil Scolaire Catholique du Nouvel-Ontario C.P. 310, 79 Rue Houle, Dowling

St. Etienne was sampled on July 19, 2001. Figure B2.4.19 details the sampling locations at this property. Samples were taken from two areas on the school property. Area A corresponds to the gravel playground. Area B corresponds to sand samples collected from the sanded play areas. Due to the constant mixing and homogenous nature of the sanded area, sand samples were collected with hand trowels to represent the 0-15 cm depth. Hand trowels were also used to collect the gravel samples to represent the 0-5 cm depth. All data were compared with the MOE Table F Ontario Soil Background Criteria and Table A Effects Based Soil Criteria (MOE 1997).

Metal concentrations were not elevated in the sand from the sand boxes. The sand present is not likely native to the school property and is believed to have been introduced when the play area was constructed. Thus the sand was not expected to have elevated metal concentrations. Neither of the gravel samples were found to have metal concentrations above the MOE Table F Ontario Soil Background Criteria. In addition, aluminum (Al), calcium (Ca), iron (Fe), magnesium (Mg), manganese (Mn), and strontium (Sr) which are not listed, were below the MOE Table F Ontario Soil Background Criteria.

These results fall within the concentration ranges of those reported historically. Previous MOE sampling of undisturbed soils approximately 2 km northeast, 4 km west, and 5 km southwest of St. Etienne, Stations 388, 389, and 391, respectively, of the MOE Sudbury 2000 Report for the City of Greater Sudbury (MOE 2001), indicated nickel and copper surface soil concentration ranges of 25 to 83 and 14 to 69 ppm, respectively. Historic MOE sampling in the Sudbury area was of undeveloped surface soils which may not be representative of the materials sampled on this property.

Table B2.4.19: Concentration of 13 Elements in Soil in µg/g Collected at St. Etienne, C.P. 310, 79 Rue Houle, Dowling - 2001																
Map ID	Station	Sample Number	Soil Depth	Sb	As	Ba	Cd	Cr	Co	Cu	Pb	Mo	Ni	Se	V	Zn
Area A gravel	5037400	14554	0 - 5	< 0.8	< 5	28	< 0.8	33	9	42	20	< 1.5	35	< 1	42	35
		14555	0 - 5	< 0.8	< 5	29	< 0.8	34	9	41	16	< 1.5	34	< 1	42	37
Area B sand	5037401	14556	0 - 15	< 0.8	< 5	21	< 0.8	36	7	23	5	< 1.5	21	< 1	38	28
Table F (results in bold)				1.0	14	190	1.0	67	19	56	55	2.5	43	1.4	91	150
Table A (results in bold and underlined)				13	20	750	12	750	40	225	200	5.0	150	10	200	600
< - less than the Method Detection Limit.																
Al, Ca, Fe, Mg, Mn, and Sr results can be found in Table 4.1.																

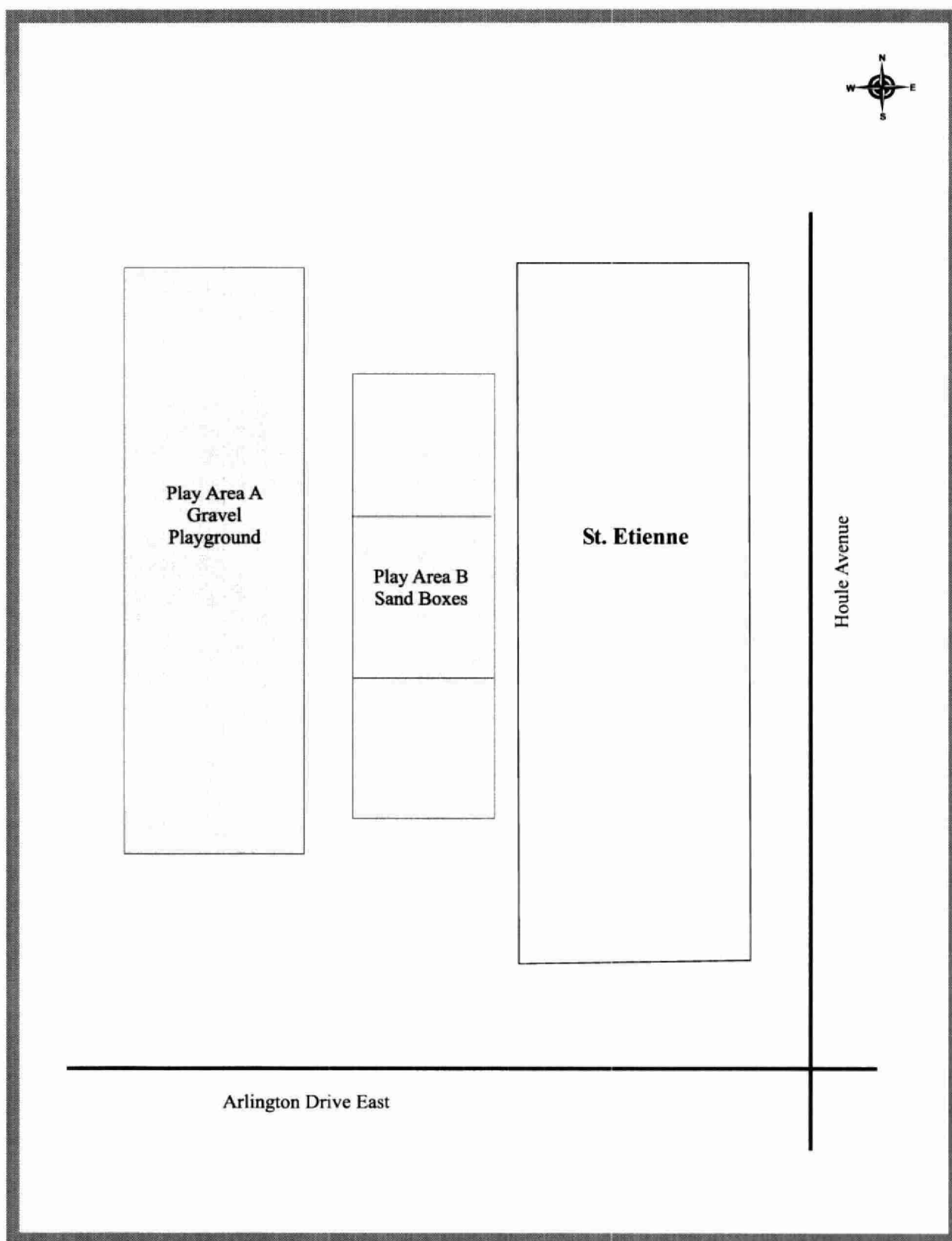


Figure B2.4.19: St. Etienne School Sampling Locations - 2001.

2.4.20 St. Gabriel (Better Beginnings) - Le Conseil Scolaire Catholique du Nouvel-Ontario 450 Morin Street, Sudbury

St. Gabriel was sampled on July 17, 2001. At the time of sampling, Sudbury Better Beginnings Program inhabited this building. Figure B2.4.20 details the sampling locations at this property. Samples were taken from two areas on the school property. Area A corresponds to the gravel playground. Area B corresponds to sand samples collected from beneath the play structure. Due to the constant mixing and homogenous nature of the sanded area, sand samples were collected with hand trowels to represent the 0-15 cm depth. Hand trowels were also used to collect the gravel samples to represent the 0-5 cm depth. All data were compared with the MOE Table F Ontario Soil Background Criteria and Table A Effects Based Soil Criteria (MOE 1997).

Metal concentrations were not elevated in the sand beneath the play structure. The sand present is not likely native to the school property and is believed to have been introduced when the play area was constructed. Thus the sand was not expected to have elevated metal concentrations. For both gravel playground samples, nickel (Ni) concentrations were elevated above the MOE Table A Effects Based Soil Criteria, and copper (Cu) and cobalt (Co) were elevated above the MOE Table F Ontario Soil Background Criteria. The highest nickel, copper, and cobalt concentrations at the gravel playground were 200, 200, and 21 ppm, respectively. All other metals listed, as well as aluminum (Al), calcium (Ca), iron (Fe), magnesium (Mg), manganese (Mn), and strontium (Sr) which are not listed, were below the MOE Table F Ontario Soil Background Criteria.

The nickel and copper results are lower than those reported historically, while the cobalt concentrations are within the concentration range previously reported. Previous MOE sampling of undisturbed soils approximately 2 km southeast, 1 km southwest, and 1.5 km northwest of St. Gabriel, Stations 75, 84, and 362, respectively, of the MOE Sudbury 2000 Report for the City of Greater Sudbury (MOE 2001), indicated nickel, copper and cobalt surface soil concentration ranges of 230 to 830, 230 to 820 ppm, and 15 to 38 ppm, respectively. Historic MOE sampling in the Sudbury area was of undeveloped surface soils which may not be representative of the materials sampled on this property.

Table B2.4.20: Concentration of 13 Elements in Soil in µg/g Collected at St. Gabriel School Better Beginnings, 450 Morin Street, Sudbury - 2001

Map ID	Station	Sample Number	Soil Depth	Sb	As	Ba	Cd	Cr	Co	Cu	Pb	Mo	Ni	Se	V	Zn
Area A gravel	5037127	14284	0 - 5	< 0.8	7	31	< 0.8	34	20	190	19	< 1.5	180	< 1	34	41
		14285	0 - 5	< 0.8	6	31	< 0.8	31	21	200	21	< 1.5	200	< 1	31	47
Area B sand	5037128	14286	0 - 15	< 0.8	5	27	< 0.8	23	8	25	3	< 1.5	23	< 1	33	16
		14287	0 - 15	< 0.8	< 5	23	< 0.8	20	8	22	3	< 1.5	22	< 1	26	15
Table F(results in bold)				1.0	14	190	1.0	67	19	56	55	2.5	43	1.4	91	150
Table A(results in bold and underlined)				13	20	750	12	750	40	225	200	5.0	150	10	200	600
< - less than the Method Detection Limit.																
Al, Ca, Fe, Mg, Mn, and Sr results can be found in Table 4.1.																

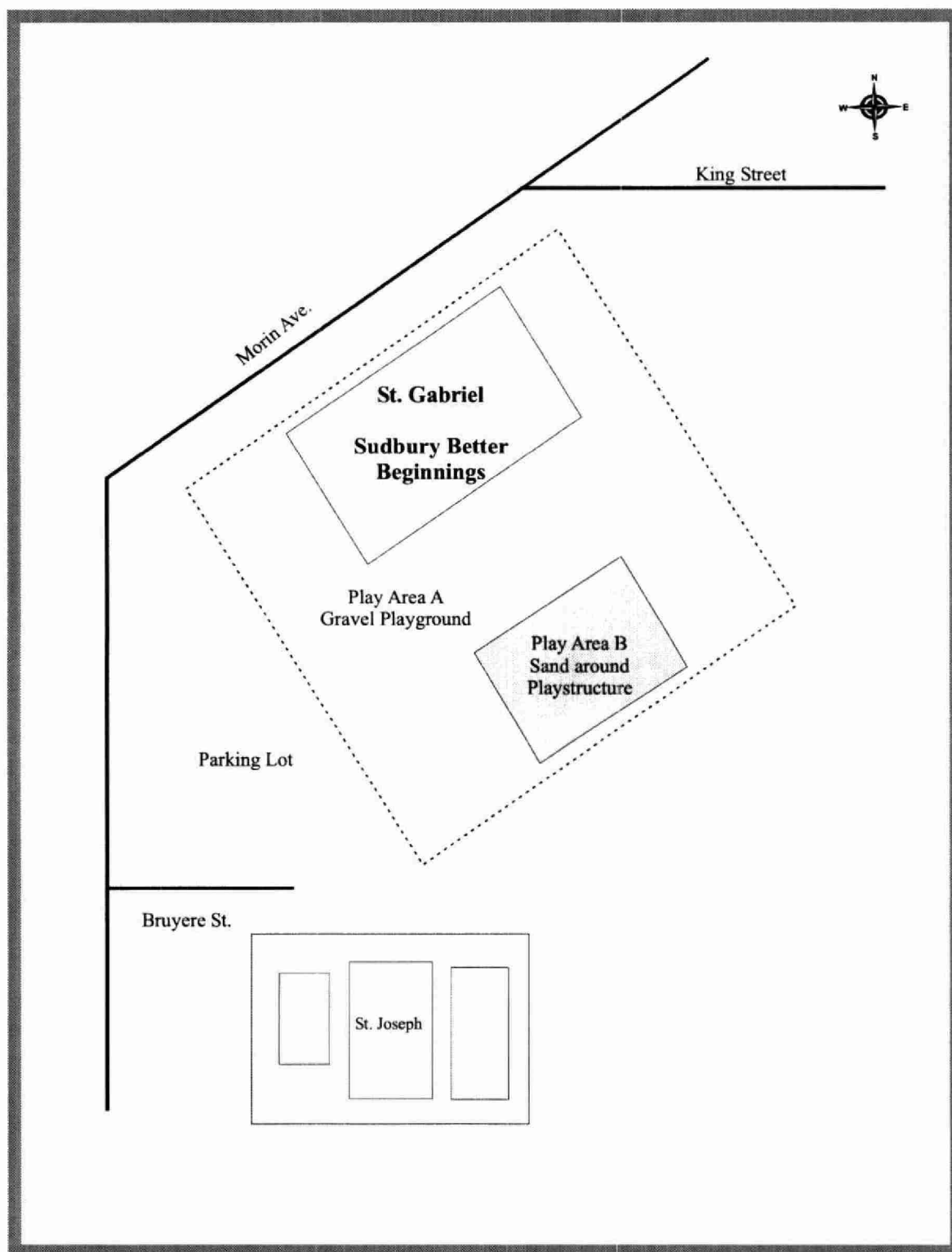


Figure B2.4.20: St. Gabriel School (Better Beginnings) Sampling Locations - 2001.

2.4.21 St. Jean (formerly) - Le Conseil Scolaire Catholique du Nouvel-Ontario 1127 Promenade Bancroft, Sudbury

St. Jean was sampled on July 17, 2001 and has since been sold. Figure B2.4.21 details the sampling locations at this property. Samples were taken from two areas on the school property. Area A corresponds to the gravel playground. Area B corresponds to sand samples collected from the sand box. Due to the constant mixing and homogenous nature of the sanded area, sand samples were collected with hand trowels to represent the 0-15 cm depth. Hand trowels were also used to collect the gravel samples to represent the 0-5 cm depth. All data were compared with the MOE Table F Ontario Soil Background Criteria and Table A Effects Based Soil Criteria (MOE 1997).

Metal concentrations were not elevated in the sand from the sand box. The sand present is not likely native to the school property and is believed to have been introduced when the play area was constructed. Thus the sand was not expected to have elevated metal concentrations. Nickel (Ni) and copper (Cu) concentrations were elevated above the MOE Table F Ontario Soil Background Criteria for both gravel playground samples from this property and above MOE Table A Effects Based Soil Criteria at selected sites. The highest nickel and copper concentrations found in the gravel samples were 180 and 160 ppm, respectively. All other metals listed, as well as aluminum (Al), calcium (Ca), iron (Fe), magnesium (Mg), manganese (Mn), and strontium (Sr) which are not listed, were below the MOE Table F Ontario Soil Background Criteria.

These results fall within the concentration ranges of those reported historically. Previous MOE sampling of undisturbed soils approximately 1 km south, and 1 km southwest of St. Jean (formerly), Stations 76 and 75, respectively, of the MOE Sudbury 2000 Report for the City of Greater Sudbury (MOE 2001), indicated nickel and copper surface soil concentration ranges of 78 to 830 and 120 to 820 ppm, respectively. Historic MOE sampling in the Sudbury area was of undeveloped surface soils which may not be representative of the materials sampled on this property.

Table B2.4.21: Concentration of 13 Elements in Soil in µg/g Collected at St. Jean (formerly), 1127 Promenade Bancroft, Sudbury - 2001																
Map ID	Station	Sample Number	Soil Depth	Sb	As	Ba	Cd	Cr	Co	Cu	Pb	Mo	Ni	Se	V	Zn
Area A gravel	5037139	14292	0 - 5	< 0.8	6	35	< 0.8	46	14	140	18	1.9	140	1	41	49
		14293	0 - 5	< 0.8	7	30	< 0.8	35	15	160	17	< 1.5	<u>180</u>	< 1	31	36
Area B sand	5037140	14294	0 - 15	< 0.8	6	22	< 0.8	27	6	34	4	< 1.5	37	< 1	26	24
Table F(results in bold)				1.0	14	190	1.0	67	19	56	55	2.5	43	1.4	91	150
Table A(results in bold and underlined)				13	20	750	12	750	40	225	200	5.0	150	10	200	600
< - less than the Method Detection Limit.																
Al, Ca, Fe, Mg, Mn, and Sr results can be found in Table 4.1.																

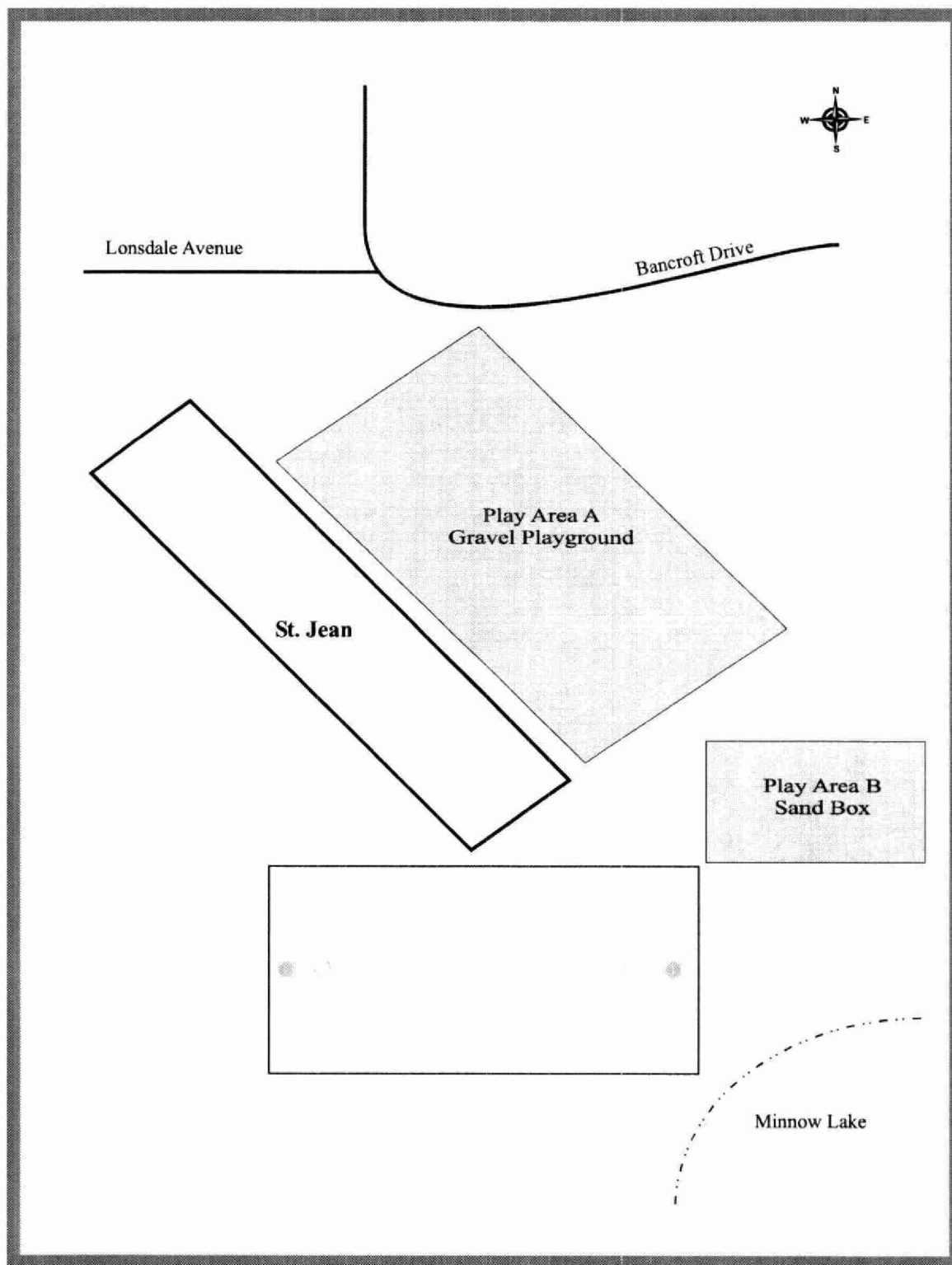


Figure B2.4.21: St. Jean (formerly) Sampling Locations - 2001.

2.4.22 St. Joseph - Le Conseil Scolaire Catholique du Nouvel-Ontario 100 Bruyere Street, Sudbury

St. Joseph was sampled on July 17, 2001. Figure B2.4.22 details the sampling locations at this property. Samples were taken from two areas on the school property. Area A corresponds to sand samples collected from beneath the play structures on the west side of the school building. Area B corresponds to the gravel playground on the east side of the school building. Due to the constant mixing and homogenous nature of the sanded area, sand samples were collected with hand trowels to represent the 0-15 cm depth. Hand trowels were also used to collect the gravel samples to represent the 0-5 cm depth. All data were compared with the MOE Table F Ontario Soil Background Criteria and Table A Effects Based Soil Criteria (MOE 1997).

Metal concentrations were not elevated in the sand beneath the play structure. The sand present is not likely native to the school property and is believed to have been introduced when the play area was constructed. Thus the sand was not expected to have elevated metal concentrations. Nickel (Ni), copper (Cu) and cobalt (Co) concentrations were elevated above the MOE Table F Ontario Soil Background Criteria in both gravel samples. Nickel concentrations were also elevated above the MOE Table A Effects Based Soil Criteria for both samples from the gravel playground. The highest nickel, copper, and cobalt concentrations found in the gravel samples were 190, 170, and 22 ppm, respectively. All other metals listed, as well as aluminum (Al), calcium (Ca), iron (Fe), magnesium (Mg), manganese (Mn), and strontium (Sr) which are not listed, were below the MOE Table F Ontario Soil Background Criteria.

These nickel and copper results are lower than those reported historically, while the elevated cobalt concentration falls within the concentration range previously reported. Previous MOE sampling of undisturbed soils approximately 2 km northwest, 1 km southwest, and 2 km southeast of St. Joseph, Stations 362, 84, and 75, respectively, of the MOE Sudbury 2000 Report for the City of Greater Sudbury (MOE 2001), indicated nickel and copper surface soil concentration ranges of 230 to 830 and 230 to 820 ppm, respectively. The concentration range for cobalt at these historic sites was 15 to 38 ppm. Historic MOE sampling in the Sudbury area was of undeveloped surface soils which may not be representative of the materials sampled on this property.

Table B2.4.22: Concentration of 13 Elements in Soil in µg/g Collected at St. Joseph, 100 Bruyere Street, Sudbury -																
Map ID	Station	Sample Number	Soil Depth	Sb	As	Ba	Cd	Cr	Co	Cu	Pb	Mo	Ni	Se	V	Zn
Area A sand	5037129	14288	0 - 15	< 0.8	< 5	21	< 0.8	25	7	28	3	< 1.5	22	< 1	27	18
		14289	0 - 15	< 0.8	< 5	19	< 0.8	26	8	23	3	< 1.5	23	< 1	27	16
Area B gravel	5037130	14290	0 - 5	< 0.8	5	32	< 0.8	34	16	170	21	< 1.5	170	< 1	33	38
		14291	0 - 5	< 0.8	6	31	< 0.8	33	22	170	22	< 1.5	190	< 1	32	36
Table F(results in bold)				1.0	14	190	1.0	67	19	56	55	2.5	43	1.4	91	150
Table A(results in bold and underlined)				13	20	750	12	750	40	225	200	5.0	150	10	200	600
< - less than the Method Detection Limit.																
Al, Ca, Fe, Mg, Mn, and Sr results can be found in Table 4.1.																

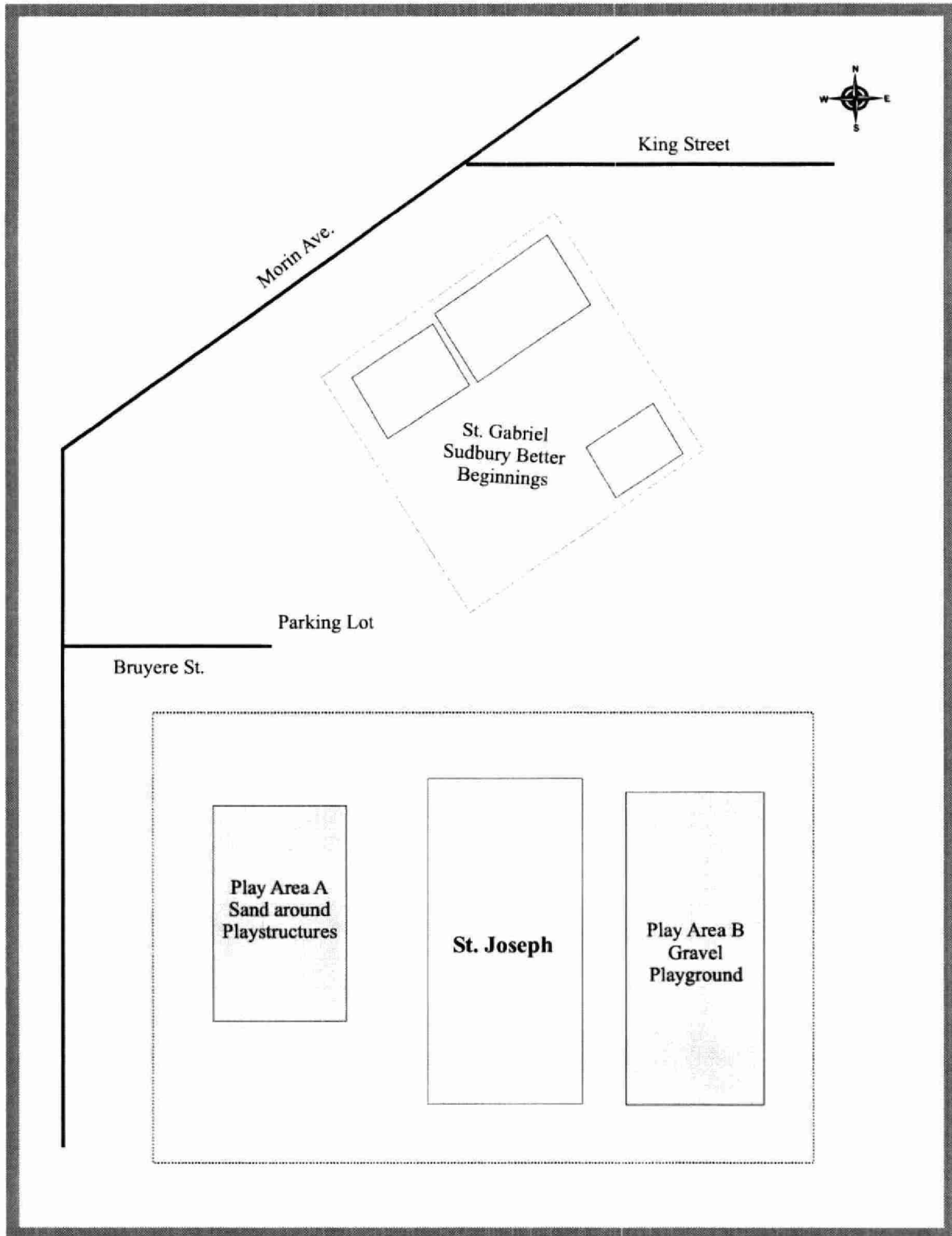


Figure B2.4.22: St. Joseph Sampling Locations - 2001.

2.4.23 St. Joseph - Le Conseil Scolaire Catholique du Nouvel-Ontario 1215 Rue St. Anthony, Val Therese

St. Joseph was sampled on July 20, 2001. Figure B2.4.23 details the sampling locations at this property. Samples were taken from three areas on the school property. Area A corresponds to the gravel playground south of the school building. Area B corresponds to sand samples collected from beneath the play structure. Due to the constant mixing and homogenous nature of the sanded area, sand samples were collected with hand trowels to represent the 0-15 cm depth. Hand trowels were also used to collect the gravel samples to represent the 0-5 cm depth. Area C corresponds to the grassed play area south of the gravel playground. Due to the compacted nature of Area C, or the presence of bedrock at shallow depths, it was only possible to sample the surface soil (0-5 cm). All data were compared with the MOE Table F Ontario Soil Background Criteria and Table A Effects Based Soil Criteria (MOE 1997).

Metal concentrations were not elevated in the sand beneath the play structure. The sand present is not likely native to the school property and is believed to have been introduced when the play area was constructed. Thus the sand was not expected to have elevated metal concentrations. Nickel (Ni) concentrations were elevated above the MOE Table F Ontario Soil Background Criteria for all other samples from this property, with the higher values found in the grassed play area. All other metals listed, as well as aluminum (Al), calcium (Ca), iron (Fe), magnesium (Mg), manganese (Mn), and strontium (Sr) which are not listed, were below the MOE Table F Ontario Soil Background Criteria. There were no exceedences of the MOE Table A Effects Based Soil Criteria at this property.

These nickel results fall within the lower end of the concentration range of those reported historically. Previous MOE sampling of undisturbed soils approximately 1 km southeast, 2.5 km east, and 3 km northeast of St. Joseph, Stations 344, 347, and 346, respectively, of the MOE Sudbury 2000 Report for the City of Greater Sudbury (MOE 2001), indicated a nickel surface soil concentration range of 43 to 150 ppm. Historic MOE sampling in the Sudbury area was of undeveloped surface soils which may not be representative of the materials sampled on this property.

Table B2.4.23: Concentration of 13 Elements in Soil in µg/g Collected at St. Joseph, 1215 Rue St. Anthony, Val Therese - 2001

Map ID	Station	Sample Number	Soil Depth	Sb	As	Ba	Cd	Cr	Co	Cu	Pb	Mo	Ni	Se	V	Zn
Area A gravel	5037309	14651	0 - 5	< 0.8	6	35	< 0.8	31	15	49	9	< 1.5	49	< 1	34	33
		14652	0 - 5	< 0.8	< 5	26	< 0.8	27	15	38	9	< 1.5	45	< 1	28	29
Area B sand	5037310	14653	0 - 15	< 0.8	< 5	41	< 0.8	46	9	43	6	< 1.5	35	< 1	51	29
Area C grass	5037311	14654	0 - 5	< 0.8	< 5	37	< 0.8	28	8	53	10	< 1.5	59	< 1	30	26
		14655	0 - 5	< 0.8	< 5	46	< 0.8	31	11	52	11	< 1.5	55	< 1	32	31
Table F(results in bold)				1.0	14	190	1.0	67	19	56	55	2.5	43	1.4	91	150
Table A(results in bold and underlined)				13	20	750	12	750	40	225	200	5.0	150	10	200	600
< - less than the Method Detection Limit.																
Al, Ca, Fe, Mg, Mn, and Sr results can be found in Table 4.1.																

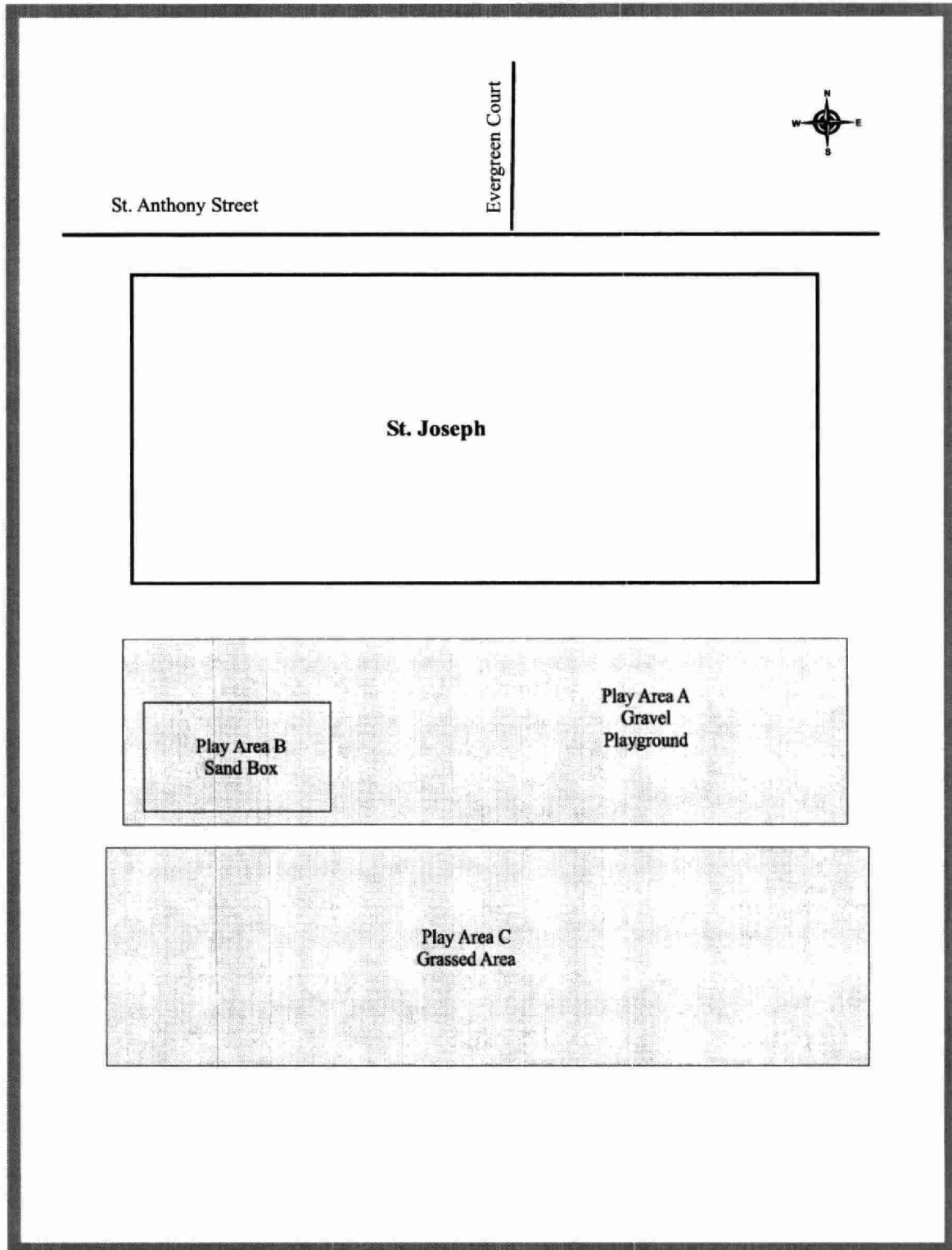


Figure B2.4.23: St. Joseph Sampling Locations - 2001.

2.4.24 St. Joseph - Le Conseil Scolaire Catholique du Nouvel-Ontario 3634 Avenue Errington, Chelmsford

St. Joseph was sampled on July 19, 2001. Figure B2.4.24 details the sampling locations at this property. Samples were taken from four areas on the school property. Area A corresponds to the grassed area of the baseball diamond. The entire diamond was grassed, without a separate infield area. Therefore, the entire diamond was sampled as one site. Area B corresponds to grassed play area on the west end of the school property. Due to the compacted nature of the grassed play area, it was only possible to sample the surface soil (0-5 cm). Area C and D correspond to sand samples collected from the north and south sanded play areas, respectively. Due to the constant mixing and homogenous nature of the sanded areas, samples were collected with hand trowels to represent the 0-15 cm depth. All data were compared with the MOE Table F Ontario Soil Background Criteria and Table A Effects Based Soil Criteria (MOE 1997).

Metal concentrations were not elevated in the sand from either sand box. The sand present is not likely native to the school property and is believed to have been introduced when the play areas were constructed. Thus the sand was not expected to have elevated metal concentrations. There was only one sample with an elevated nickel (Ni) concentration that was slightly above the MOE Table F Ontario Soil Background Criteria at 50 ppm. The elevated nickel concentration, 50 ppm, was found in one replicate sample from the west grassed play area, Area B. All other metals listed, as well as aluminum (Al), calcium (Ca), iron (Fe), magnesium (Mg), manganese (Mn), and strontium (Sr) which are not listed, were below the MOE Table F Ontario Soil Background Criteria. There were no exceedences of the MOE Table A Effects Based Soil Criteria at this property.

These nickel results are lower than those reported historically. Previous MOE sampling of undisturbed soils approximately 2 km northwest, 4 km southwest, and 6 km southeast of St. Joseph, Stations 386, 385, and 384, respectively, of the MOE Sudbury 2000 Report for the City of Greater Sudbury (MOE 2001), indicated a nickel surface soil concentration range of 65 to 170 ppm. Historic MOE sampling in the Sudbury area was of undeveloped surface soils which may not be representative of the materials sampled on this property.

Table B2.4.24: Concentration of 13 Elements in Soil in µg/g Collected at St. Joseph, 3634 Avenue Errington, Chelmsford - 2001																
Map ID	Station	Sample Number	Soil Depth	Sb	As	Ba	Cd	Cr	Co	Cu	Pb	Mo	Ni	Se	V	Zn
Area A grass	5037396	14544	0 - 5	< 0.8	< 5	20	< 0.8	22	4	22	10	< 1.5	30	< 1	26	18
		14545	0 - 5	< 0.8	< 5	19	< 0.8	20	3	26	10	< 1.5	33	< 1	23	20
		14546	5 - 10	< 0.8	< 5	20	< 0.8	20	3	11	6	< 1.5	21	< 1	21	15
		14547	5 - 10	< 0.8	< 5	20	< 0.8	20	3	18	9	< 1.5	27	< 1	25	18
		14548	10 - 20	< 0.8	< 5	18	< 0.8	21	3	4	4	< 1.5	13	< 1	23	12
		14549	10 - 20	< 0.8	< 5	23	< 0.8	21	3	6	5	< 1.5	15	< 1	25	13
Area B grass	5037397	14550	0 - 5	< 0.8	6	24	< 0.8	18	3	23	8	< 1.5	33	< 1	26	19
		14551	0 - 5	< 0.8	7	28	< 0.8	24	4	38	12	< 1.5	50	< 1	32	21
Area C sand	5037398	14552	0 - 15	< 0.8	< 5	21	< 0.8	22	5	13	3	< 1.5	21	< 1	27	15
Area D sand	5037399	14553	0 - 15	< 0.8	< 5	20	< 0.8	24	5	13	2	< 1.5	19	< 1	28	18
Table F(results in bold)				1.0	14	190	1.0	67	19	56	55	2.5	43	1.4	91	150
Table A(results in bold and underlined)				13	20	750	12	750	40	225	200	5.0	150	10	200	600
< - less than the Method Detection Limit.																
Al, Ca, Fe, Mg, Mn, and Sr results can be found in Table 4.1.																

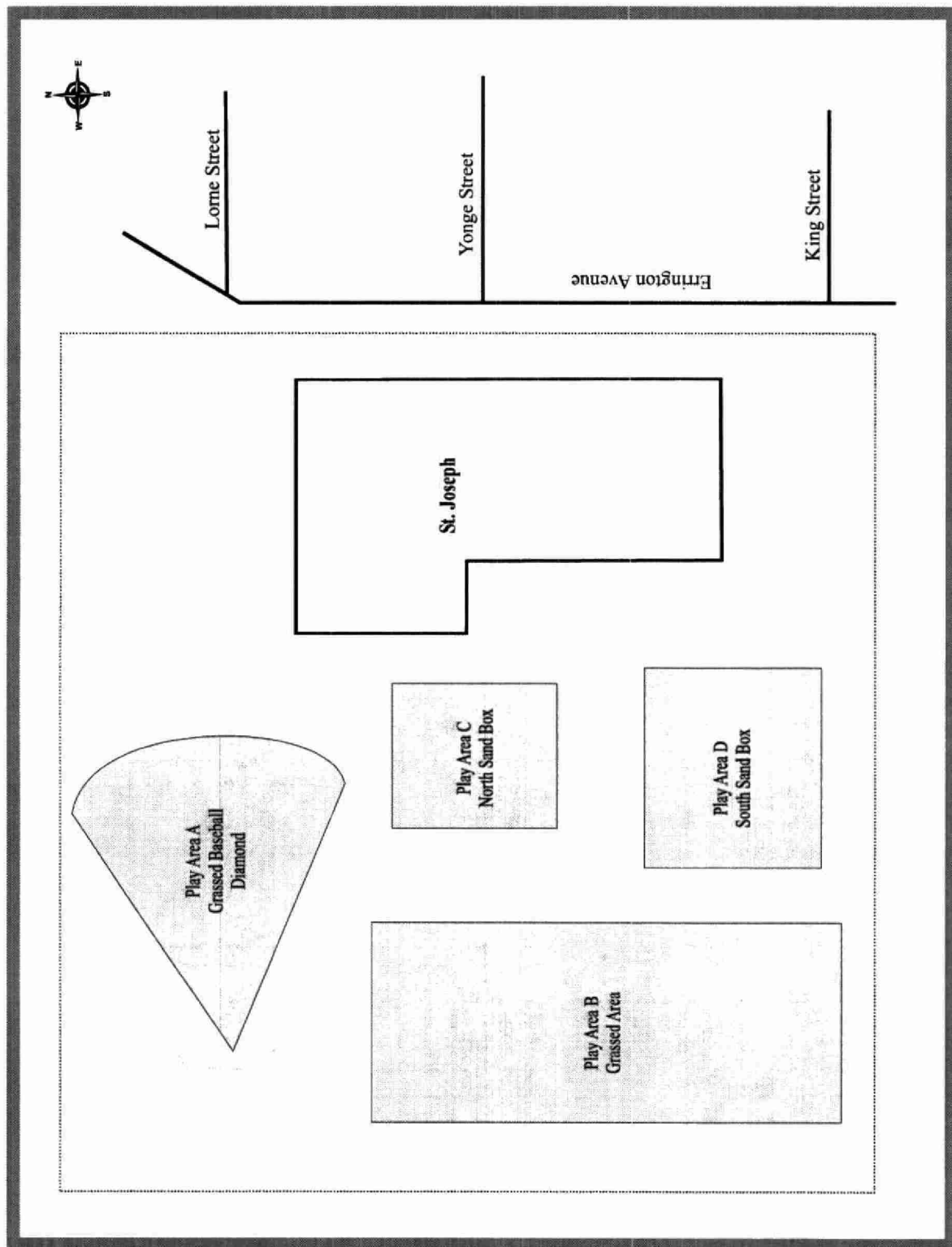


Figure B2.4.24: St. Joseph Soil Sampling Locations - 2001.

2.4.25 St. Michel - Le Conseil Scolaire Catholique du Nouvel-Ontario 4500 Rue St. Michele, Hanmer

St. Michel was sampled on July 20, 2001 and has since been purchased by the Sudbury Catholic District School Board, with the name changed to St. Anne. Figure B2.4.25 details the sampling locations at this property. Samples were taken from two areas on the school property. Area A corresponds to the gravel playground. Area B corresponds to sand samples collected from beneath the play structure. Due to the constant mixing and homogenous nature of the sanded area, sand samples were collected with hand trowels to represent the 0-15 cm depth. Hand trowels were also used to collect the gravel samples to represent the 0-5 cm depth. All data were compared with the MOE Table F Ontario Soil Background Criteria and Table A Effects Based Soil Criteria (MOE 1997).

Metal concentrations were not elevated in the sand beneath the play structure. The sand present is not likely native to the school property and is believed to have been introduced when the play area was constructed. Thus the sand was not expected to have elevated metal concentrations. Nickel (Ni), copper (Cu), and cobalt (Co) were elevated above the MOE Table F Ontario Soil Background Criteria in at least one replicate sample from the gravel playground. The highest nickel, copper, and cobalt concentrations found were 56, 66, and 24 ppm, respectively. All other metals listed, as well as aluminum (Al), calcium (Ca), iron (Fe), magnesium (Mg), manganese (Mn), and strontium (Sr) which are not listed, were below the MOE Table F Ontario Soil Background Criteria. There were no exceedences of the MOE Table A Effects Based Soil Criteria at this property.

These nickel results are lower than those reported historically, while the copper concentrations fall within the concentration ranges previously reported. The elevated cobalt concentration found at this property was higher than previously reported. Previous MOE sampling of undisturbed soils approximately 1 km southeast and 2 km southwest of St. Michel, Stations 350 and 347, respectively, of the MOE Sudbury 2000 Report for the City of Greater Sudbury (MOE 2001), indicated nickel and copper surface soil concentration ranges of 78 to 150 and 56 to 110 ppm, respectively. The highest cobalt concentration reported historically for these sites was 7.4 ppm. Historic MOE sampling in the Sudbury area was of undeveloped surface soils which may not be representative of the materials sampled on this property.

Table B2.4.25: Concentration of 13 Elements in Soil in µg/g Collected at St. Michel, 4500 Rue St. Michele, Hanmer - 2001																
Map ID	Station	Sample Number	Soil Depth	Sb	As	Ba	Cd	Cr	Co	Cu	Pb	Mo	Ni	Se	V	Zn
Area A gravel	5037330	14622	0 - 5	< 0.8	< 5	34	< 0.8	30	24	66	11	< 1.5	53	< 1	32	33
		14623	0 - 5	< 0.8	< 5	30	< 0.8	26	18	53	9	< 1.5	56	< 1	28	27
Area B sand	5037331	14624	0 - 15	< 0.8	< 5	18	< 0.8	23	5	15	2	< 1.5	16	< 1	27	18
Table F(results in bold)				1.0	14	190	1.0	67	19	56	55	2.5	43	1.4	91	150
Table A(results in bold and underlined)				13	20	750	12	750	40	225	200	5.0	150	10	200	600
< - less than the Method Detection Limit.																
Al, Ca, Fe, Mg, Mn, and Sr results can be found in Table 4.1.																

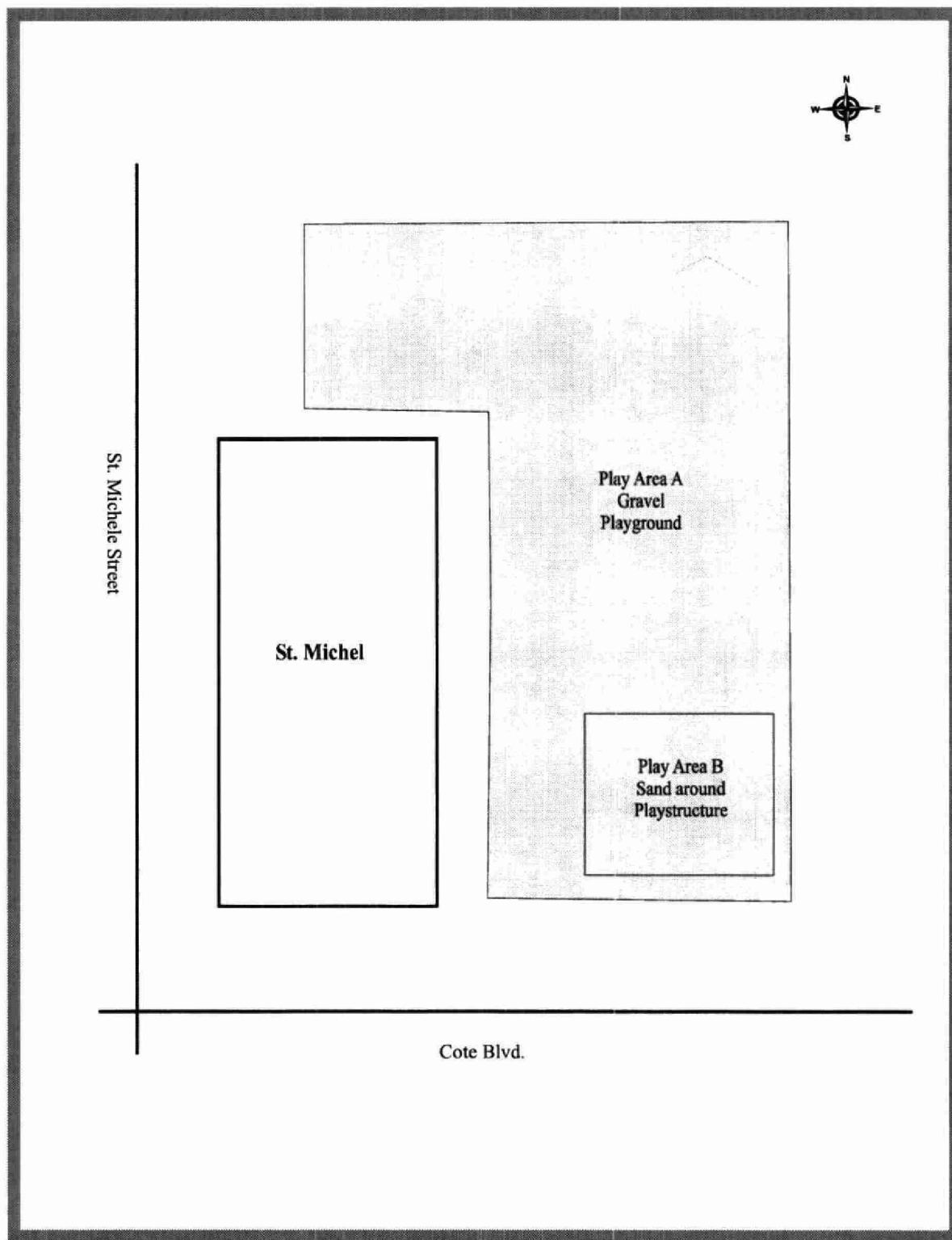


Figure B2.4.25: St. Michel Sampling Locations - 2001.

2.4.26 St. Paul - Le Conseil Scolaire Catholique du Nouvel-Ontario 185 6th Avenue, Lively

St. Paul was sampled on July 21, 2001. Figure B2.4.26 details the sampling locations at this property. Samples were taken from two areas on the school property. Area A corresponds to the grassed area of the baseball diamond. The entire diamond was grassed, without a separate infield area. Therefore, the entire diamond was sampled as one site. Due to the compacted nature of the baseball diamond, it was only possible to sample to the 5 -10 cm depth for one replicate. Area B corresponds to the gravel playground just south of the school building. Due to the constant mixing and homogenous nature of the gravel areas, samples were collected with hand trowels to represent the 0-5 cm depth. All data were compared with the MOE Table F Ontario Soil Background Criteria and Table A Effects Based Soil Criteria (MOE 1997).

Nickel (Ni) and copper (Cu) concentrations were elevated above the MOE Table F Ontario Soil Background Criteria for all samples from this property. The highest nickel and copper concentrations, 150 and 110 ppm, respectively, were found in the surface soil layer of the grassed baseball diamond. All other metals listed, as well as aluminum (Al), calcium (Ca), iron (Fe), magnesium (Mg), manganese (Mn), and strontium (Sr) which are not listed, were below the MOE Table F Ontario Soil Background Criteria. There were no exceedences of the MOE Table A Effects Based Soil Criteria at this property.

These nickel and copper results fall within the concentration ranges of those reported historically. Previous MOE sampling of undisturbed soils approximately 1 km south and 2.5 km southeast of St. Paul, Stations 376 and 100, respectively, of the MOE Sudbury 2000 Report for the City of Greater Sudbury (MOE 2001), indicated nickel and copper surface soil concentration ranges of 34 to 700 and 35 to 568 ppm, respectively. Historic MOE sampling in the Sudbury area was of undeveloped surface soils which may not be representative of the materials sampled on this property.

Table B2.4.26: Concentration of 13 Elements in Soil in µg/g Collected at St. Paul, 185 6th Avenue, Lively - 2001																
Map ID	Station	Sample Number	Soil Depth	Sb	As	Ba	Cd	Cr	Co	Cu	Pb	Mo	Ni	Se	V	Zn
Area A grass	5037245	14721	0 - 5	< 0.8	6	67	< 0.8	34	10	110	19	< 1.5	150	< 1	32	53
		14722	0 - 5	< 0.8	< 5	58	< 0.8	31	9	93	15	< 1.5	130	1	30	42
		14723	5 - 10	< 0.8	7	53	< 0.8	32	10	100	14	< 1.5	130	< 1	31	50
Area B gravel	5037246	14724	0 - 5	< 0.8	< 5	30	< 0.8	34	11	83	13	< 1.5	90	< 1	34	36
		14725	0 - 5	< 0.8	< 5	31	< 0.8	35	11	79	12	< 1.5	83	< 1	35	35
Table F(results in bold)				1.0	14	190	1.0	67	19	56	55	2.5	43	1.4	91	150
Table A(results in bold and underlined)				13	20	750	12	750	40	225	200	5.0	150	10	200	600
< - less than the Method Detection Limit.																
Al, Ca, Fe, Mg, Mn, and Sr results can be found in Table 4.1.																

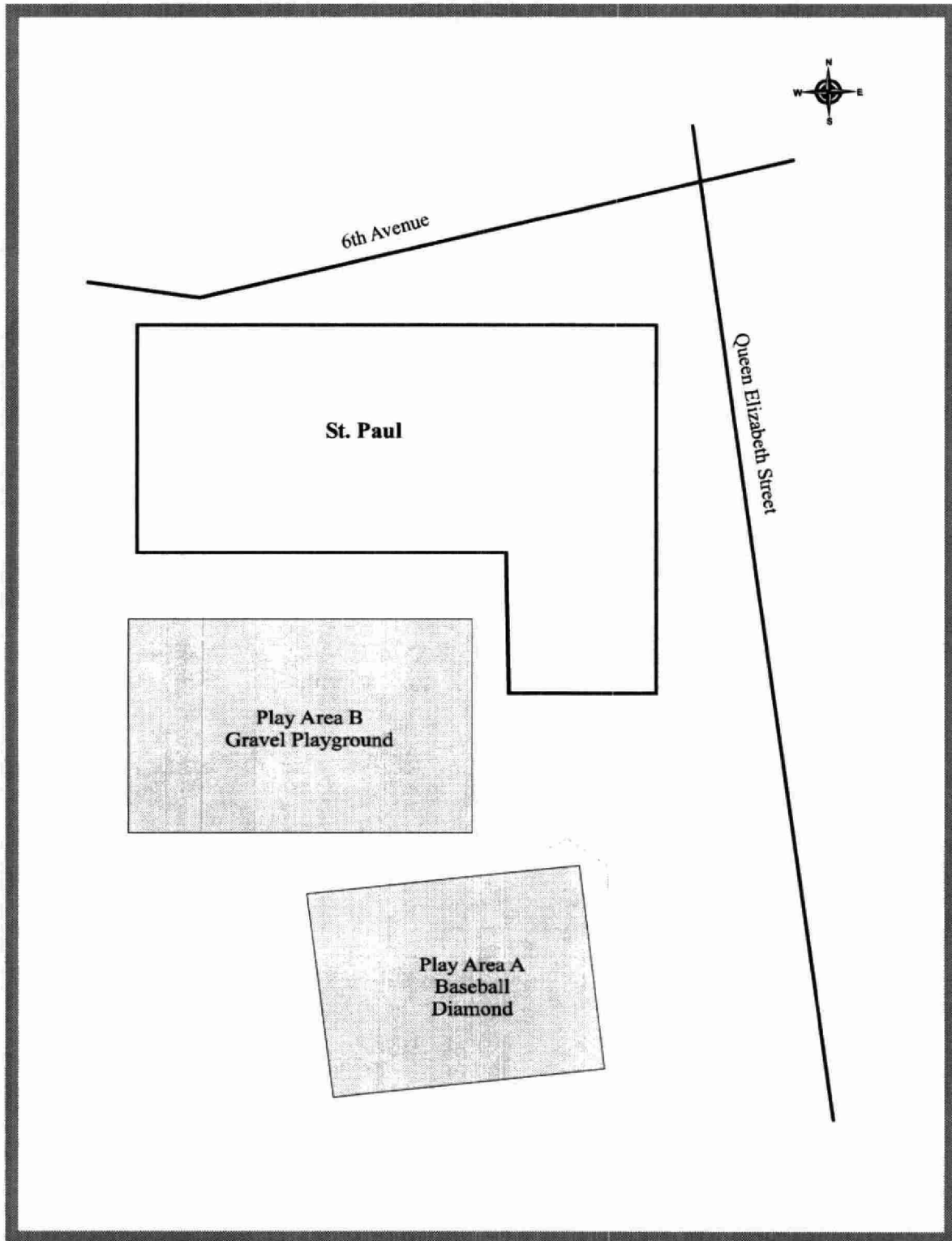


Figure B2.4.26: St. Paul Sampling Locations - 2001.

2.4.27 St. Pierre - Le Conseil Scolaire Catholique du Nouvel-Ontario 70 Rue Wilfred, Sudbury

St. Pierre was sampled on July 22, 2001. Figure B2.4.27 details the sampling locations at this property. Samples were taken from one area on the school property. Area A corresponds to the gravel playground surrounding the school building. Due to the constant mixing and homogenous nature of the gravel areas, samples were collected with hand trowels to represent the 0-5 cm depth. There were not any other play areas to sample at this property. All data were compared with the MOE Table F Ontario Soil Background Criteria and Table A Effects Based Soil Criteria (MOE 1997).

Nickel (Ni), copper (Cu), and cobalt (Co) were elevated above the MOE Table F Ontario Soil Background Criteria in at least one replicate sample from the gravel playground. The highest nickel, copper, and cobalt concentrations found were 120, 93, and 29 ppm, respectively. All other metals listed, as well as aluminum (Al), calcium (Ca), iron (Fe), magnesium (Mg), manganese (Mn), and strontium (Sr) which are not listed, were below the MOE Table F Ontario Soil Background Criteria. There were no exceedences of the MOE Table A Effects Based Soil Criteria at this property.

These nickel and copper results fall within the lower end of the concentration ranges of those reported historically, while the cobalt concentrations fall within the higher end of the concentration ranges previously reported. Previous MOE sampling of undisturbed soils approximately 1 km northwest and 1.5 km southeast of St. Pierre, Stations 77 and 74, respectively, of the MOE Sudbury 2000 Report for the City of Greater Sudbury (MOE 2001), indicated nickel and copper surface soil concentration ranges of 91 to 790 and 87 to 740 ppm, respectively. The concentration range for cobalt at these historic sites was 6.5 to 32 ppm. Historic MOE sampling in the Sudbury area was of undeveloped surface soils which may not be representative of the materials sampled on this property.

Table B2.4.27: Concentration of 13 Elements in Soil in µg/g Collected at St. Pierre, 70 Rue Wilfred, Sudbury - 2001																
Map ID	Station	Sample Number	Soil Depth	Sb	As	Ba	Cd	Cr	Co	Cu	Pb	Mo	Ni	Se	V	Zn
Area A gravel	5037266	14772	0 - 5	< 0.8	< 5	39	< 0.8	35	29	93	7	< 1.5	120	< 1	34	39
		14773	0 - 5	< 0.8	< 5	39	< 0.8	33	17	82	7	< 1.5	88	< 1	30	31
Table F(results in bold)				1.0	14	190	1.0	67	19	56	55	2.5	43	1.4	91	150
Table A(results in bold and underlined)				13	20	750	12	750	40	225	200	5.0	150	10	200	600
< - less than the Method Detection Limit.																
Al, Ca, Fe, Mg, Mn, and Sr results can be found in Table 4.1.																

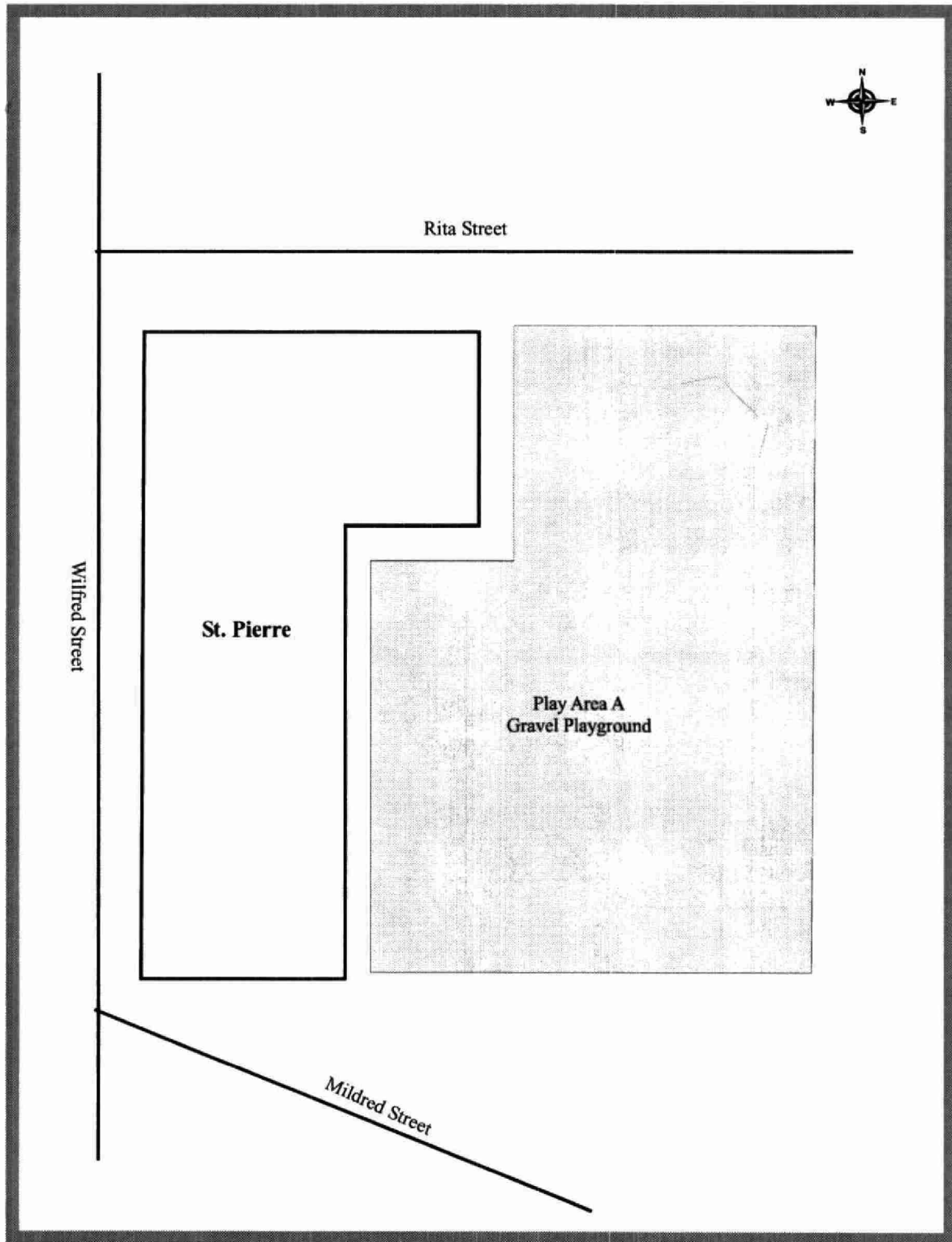


Figure B2.4.27: St. Pierre Sampling Locations - 2001.

2.4.28 Ste. Marie - Le Conseil Scolaire Catholique du Nouvel-Ontario 25 Rue Marier, Azilda

Ste. Marie was sampled on July 19, 2001. Figure B2.4.28 details the sampling locations at this property. Samples were taken from two areas on the school property. Area A corresponds to the gravel baseball diamond and playground north of the school building. Area B corresponds to sand samples collected from beneath the play structure west of the school building. Due to the constant mixing and homogenous nature of the sanded area, sand samples were collected with hand trowels to represent the 0-15 cm depth. Hand trowels were also used to collect the gravel samples to represent the 0-5 cm depth. All data were compared with the MOE Table F Ontario Soil Background Criteria and Table A Effects Based Soil Criteria (MOE 1997).

Metal concentrations were not elevated in the sand beneath the play structure. The sand is not likely native to the school property and is believed to have been introduced when the play structure was constructed. Thus the sand was not expected to have elevated metal concentrations. Nickel (Ni) and copper (Cu) concentrations were elevated above the MOE Table F Ontario Soil Background Criteria for both gravel playground samples. The highest nickel and copper concentrations found were 85 and 68 ppm, respectively. All other metals listed, as well as aluminum (Al), calcium (Ca), iron (Fe), magnesium (Mg), manganese (Mn), and strontium (Sr) which are not listed, were below the MOE Table F Ontario Soil Background Criteria. There were no exceedences of the MOE Table A Effects Based Soil Criteria at this property.

These nickel and copper results are lower than those reported historically. Previous MOE sampling of undisturbed soils approximately 2.5 km southeast and 4.5 km southwest of Ste. Marie, Stations 90, 91, and 384, respectively, of the MOE Sudbury 2000 Report for the City of Greater Sudbury (MOE 2001), indicated nickel and copper surface soil concentration ranges of 100 to 770 and 74 to 820 ppm, respectively. Historic MOE sampling in the Sudbury area was of undeveloped surface soils which may not be representative of the materials sampled on this property.

Table B2.4.28: Concentration of 13 Elements in Soil in µg/g Collected at Ste. Marie, 25 Rue Marier, Azilda - 2001																
Map ID	Station	Sample Number	Soil Depth	Sb	As	Ba	Cd	Cr	Co	Cu	Pb	Mo	Ni	Se	V	Zn
Area A gravel	5037373	14500	0 - 5	< 0.8	< 5	34	< 0.8	36	12	68	14	< 1.5	85	< 1	36	46
		14501	0 - 5	< 0.8	< 5	34	< 0.8	32	11	58	12	< 1.5	60	< 1	36	42
Area B sand	5037374	14502	0 - 15	< 0.8	< 5	17	< 0.8	23	5	17	4	< 1.5	19	< 1	28	25
Table F(results in bold)				1.0	14	190	1.0	67	19	56	55	2.5	43	1.4	91	150
Table A(results in bold and underlined)				13	20	750	12	750	40	225	200	5.0	150	10	200	600
< - less than the Method Detection Limit.																
Al, Ca, Fe, Mg, Mn, and Sr results can be found in Table 4.1.																

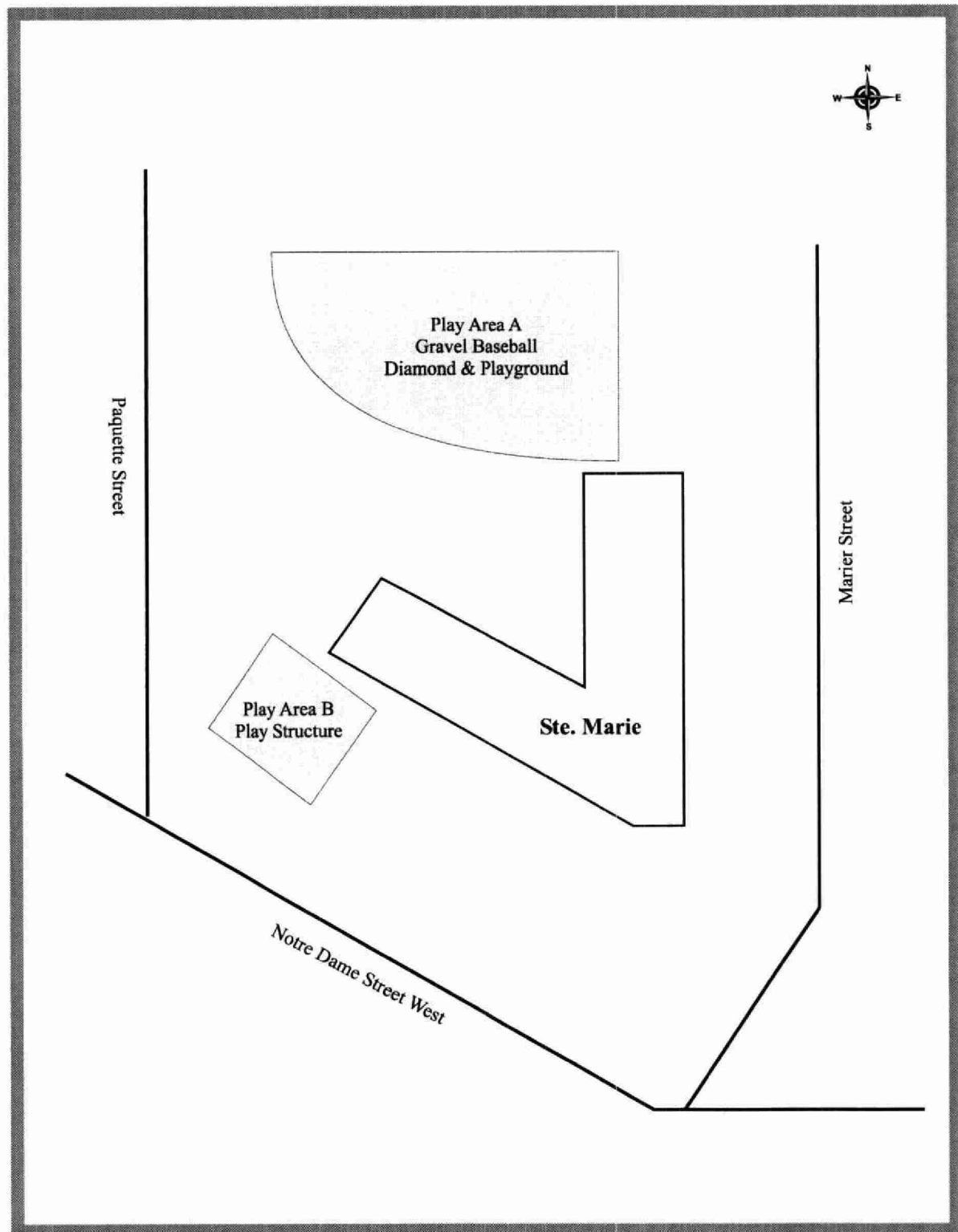


Figure B2.4.28: Ste. Marie School Sampling Locations - 2001.

2.4.29 Ste. Therese - Le Conseil Scolaire Catholique du Nouvel-Ontario 4617 Rue Ste. Therese, Val Therese

Ste. Therese was sampled on July 20, 2001. Figure B2.4.29 details the sampling locations at this property. Samples were taken from three areas on the school property. Area A corresponds to sand samples collected from the sand box west of the school building. Area B corresponds to the gravel playground also west of the school building. Due to the constant mixing and homogenous nature of the sanded area, sand samples were collected with hand trowels to represent the 0-15 cm depth. Hand trowels were also used to collect the gravel samples to represent the 0-5 cm depth. Area C corresponds to the grassed play area west of the gravel playground. Due to the compacted nature of Area C, or the presence of bedrock at shallow depths, it was only possible to sample the surface soil (0-5 cm). All data were compared with the MOE Table F Ontario Soil Background Criteria and Table A Effects Based Soil Criteria (MOE 1997).

Metal concentrations were not elevated in the sand from the sand box. The sand present is not likely native to the school property and is believed to have been introduced when the play area was constructed. Thus the sand was not expected to have elevated metal concentrations. Nickel (Ni) concentrations were elevated above the MOE Table F Ontario Soil Background Criteria for both grassed play area samples from this property. All other metals listed, as well as aluminum (Al), calcium (Ca), iron (Fe), magnesium (Mg), manganese (Mn), and strontium (Sr) which are not listed, were below the MOE Table F Ontario Soil Background Criteria. There were no exceedences of the MOE Table A Effects Based Soil Criteria at this property.

These nickel results fall within the lower end of the concentration range of those reported historically. Previous MOE sampling of undisturbed soils approximately 2 km southeast, 3 km northeast, and 3 km southeast of Ste. Therese, Stations 344, 346, and 347, respectively, of the MOE Sudbury 2000 Report for the City of Greater Sudbury (MOE 2001), indicated a nickel surface soil concentration range of 43 to 150 ppm. Historic MOE sampling in the Sudbury area was of undeveloped surface soils which may not be representative of the materials sampled on this property.

Table B2.4.29: Concentration of 13 Elements in Soil in µg/g Collected at Ste. Therese, 4617 Rue Ste. Therese, Val Therese - 2001																
Map ID	Station	Sample Number	Soil Depth	Sb	As	Ba	Cd	Cr	Co	Cu	Pb	Mo	Ni	Se	V	Zn
Area A sand	5037306	14656	0 - 15	< 0.8	< 5	17	< 0.8	24	5	9	2	< 1.5	14	< 1	28	14
Area B gravel	5037307	14657	0 - 5	< 0.8	< 5	26	< 0.8	39	8	37	8	< 1.5	36	< 1	34	27
		14658	0 - 5	< 0.8	< 5	28	< 0.8	37	8	44	10	< 1.5	40	< 1	37	32
Area C grass	5037308	14659	0 - 5	< 0.8	6	36	< 0.8	28	7	48	14	< 1.5	55	< 1	29	34
		14660	0 - 5	< 0.8	< 5	37	< 0.8	34	7	44	12	< 1.5	46	< 1	34	38
Table F(results in bold)				1.0	14	190	1.0	67	19	56	55	2.5	43	1.4	91	150
Table A(results in bold and underlined)				13	20	750	12	750	40	225	200	5.0	150	10	200	600
< - less than the Method Detection Limit.																
Al, Ca, Fe, Mg, Mn, and Sr results can be found in Table 4.1.																

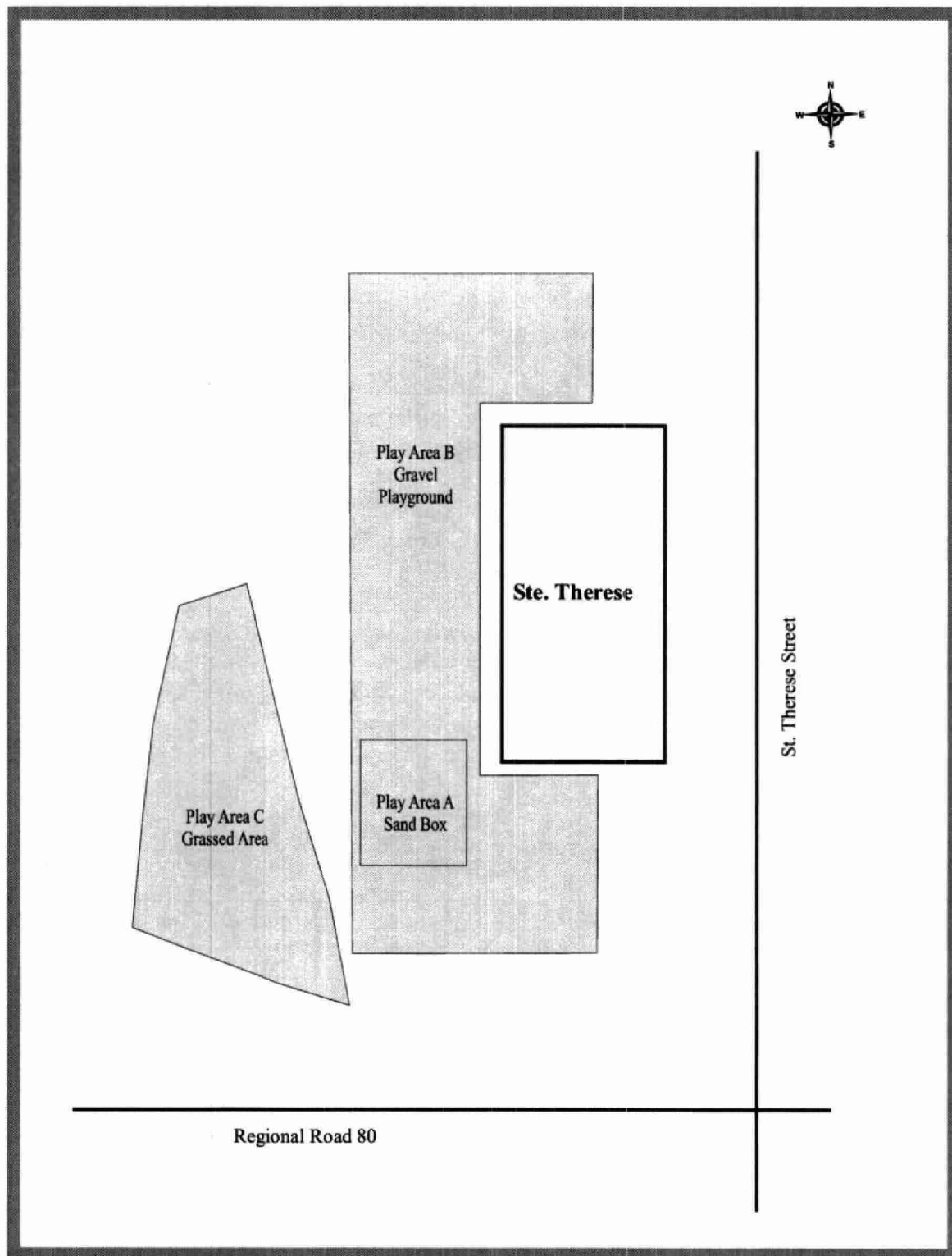


Figure B2.4.29: Ste. Therese Sampling Locations - 2001.

2.5 Private Schools

There were only two private schooling facilities provided to the MOE by the City of Greater Sudbury. Both Baron Academy Nursery (formerly) and Montessori School of Sudbury were sampled in July 2001.

2.5.1 Baron Academy Nursery (formerly), 1534 Pioneer Road, Sudbury

Baron Academy Nursery was sampled on July 4, 2001 and has since been sold. Figure B2.5.1 details the sampling locations at this property. Samples were taken from two areas on the school property. Area A corresponds to the baseball diamond infield and Area B correspond to the baseball diamond outfield. Due to the compacted nature of Areas A and B, it was only possible to sample the surface soil layer of the infield and to 10 cm in the outfield. All data were compared with the MOE Table F Ontario Soil Background Criteria and Table A Effects Based Soil Criteria (MOE 1997).

Nickel (Ni) and copper (Cu) concentrations were elevated above the MOE Table F Ontario Soil Background Criteria in selected samples taken from the baseball diamond outfield. The highest nickel and copper concentrations found, 71, and 58 ppm, respectively, were found in the surface soil of the grassed baseball diamond outfield. All other metals listed, as well as aluminum (Al), calcium (Ca), iron (Fe), magnesium (Mg), manganese (Mn), and strontium (Sr) which are not listed, were below the MOE Table F Ontario Soil Background Criteria. There were no exceedences of the MOE Table A Effects Based Soil Criteria at this property.

These soil results are lower than those reported historically. Previous MOE sampling of undisturbed soils approximately 1.5 km west of Baron Academy Nursery (formerly), Station 404 of the MOE Sudbury 2000 Report, for the City of Greater Sudbury (MOE 2001), indicated nickel and copper surface soil concentrations as high as 120 and 110 ppm, respectively. Historic MOE sampling in the Sudbury area was of undeveloped surface soils which may not be representative of the materials sampled on this property.

Table B2.5.1: Concentration of 13 Elements in Soil in µg/g at Baron Academy Nursery (formerly), 1534 Pioneer Road, Sudbury																
Map ID	Station	Sample Number	Soil Depth	Sb	As	Ba	Cd	Cr	Co	Cu	Pb	Mo	Ni	Se	V	Zn
Area A gravel	5037006	14024	0 - 5	< 0.8	5	31	< 0.8	25	4	15	4	< 1.5	23	< 1	25	14
		14025	0 - 5	< 0.8	5	43	< 0.8	31	6	21	6	< 1.5	30	< 1	29	21
Area B grass	5037007	14026	0 - 5	< 0.8	5	27	< 0.8	25	6	58	12	< 1.5	71	< 1	25	21
		14027	0 - 5	< 0.8	5	28	< 0.8	24	6	47	10	< 1.5	61	< 1	24	21
		14028	5 - 10	< 0.8	5	29	< 0.8	27	6	55	8	< 1.5	60	< 1	26	19
		14029	5 - 10	< 0.8	5	30	< 0.8	24	5	48	7	< 1.5	57	< 1	25	19
Table F (results in bold)				1.0	14	190	1.0	67	19	56	55	2.5	43	1.4	91	150
Table A (results in bold &				13	20	750	3.0	750	40	150	200	5.0	150	2.0	200	600
< - less than the Method Detection Limit. Al, Ca, Fe, Mg, Mn, and Sr results can be found in Table 4.1																
Note: The ball field was also sampled separately as part of McFarlane Lake Playground. (see Appendix C)																

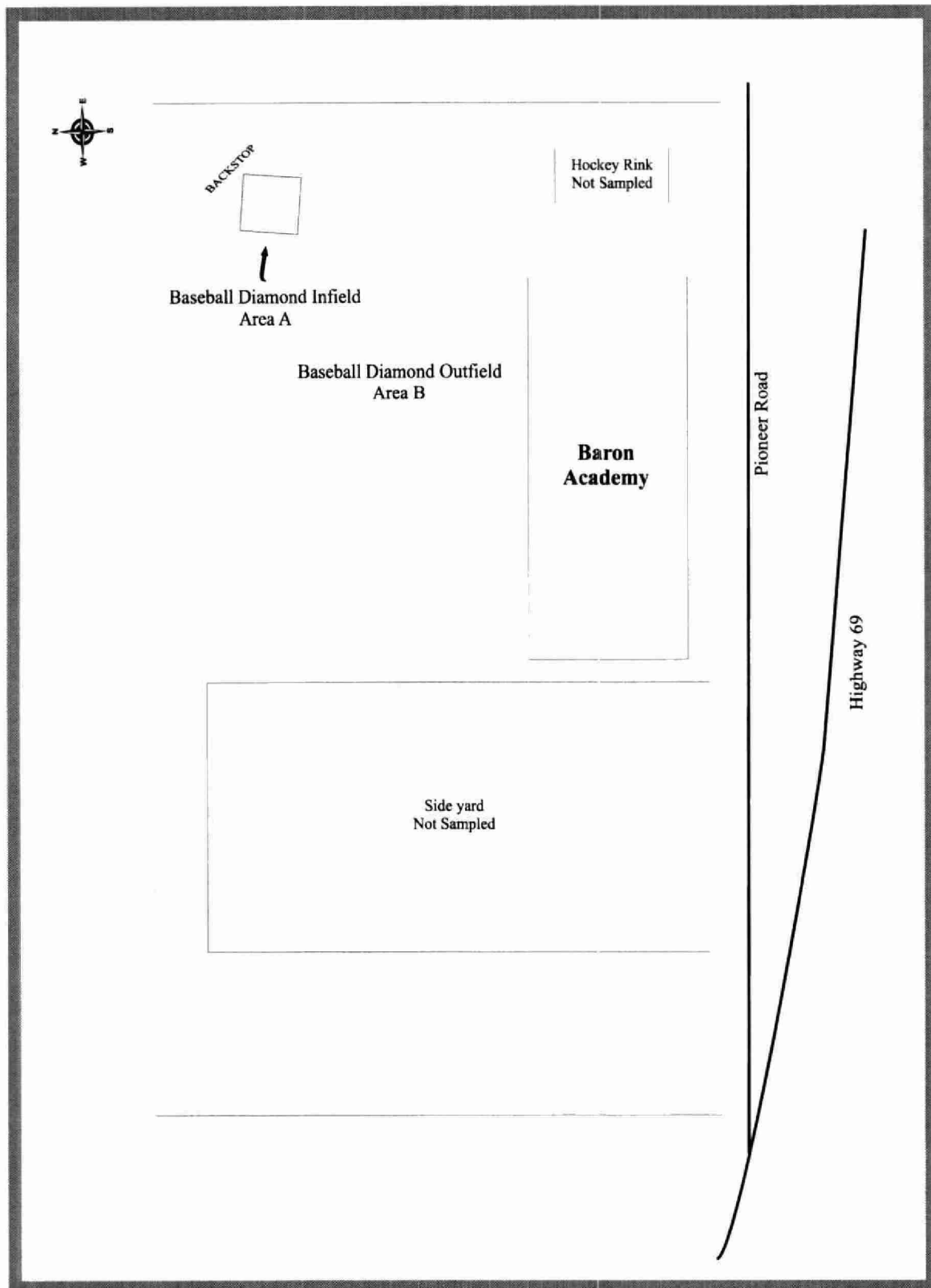


Figure B2.5.1: Baron Academy Nursery (formerly) Sampling Locations - 2001.

2.5.2 Montessori School of Sudbury, 295 Victoria Street, Sudbury

Montessori School of Sudbury was sampled on July 6, 2001. Figure B2.5.2 details the sampling locations at this property. Samples were taken from three areas on the school property. Area A corresponds to the grassed play area on the south side of the fenced property. Due to the compacted nature of Area A, it was only possible to sample the surface soil layer (0-5 cm). Area B corresponds to the sand samples that were taken from the sand boxes. Area D corresponds to the gravel playground in the lower part of the property. Due to the constant mixing and homogenous nature of the sanded area, sand samples were collected with hand trowels to represent the 0-15 cm depth. Hand trowels were also used to collect the gravel samples to represent the 0-5 cm depth. All data were compared with the MOE Table F Ontario Soil Background Criteria and Table A Effects Based Soil Criteria (MOE 1997).

Metal concentrations were not elevated in the sand from the sand boxes. The sand present is not likely native to the school property and is believed to have been introduced when the sanded play areas were constructed. Thus the sand was not expected to have elevated metal concentrations. Nickel (Ni) and copper (Cu) concentrations were elevated above the MOE Table F Ontario Soil Background Criteria in all other samples taken from this property. Cobalt (Co) and chromium (Cr) concentrations were also elevated above the MOE Table F Ontario Soil Background Criteria in both the gravel samples. The highest nickel and copper concentrations found in the surface soil samples from the grassed play area were 210 and 150 ppm, respectively. The highest cobalt and chromium concentrations, 30 and 90 ppm, respectively, were found in the samples from the gravel playground. All other metals listed, as well as aluminum (Al), calcium (Ca), iron (Fe), magnesium (Mg), manganese (Mn), and strontium (Sr) which are not listed, were below the MOE Table F Ontario Soil Background Criteria. Only one sample, 0 -5 cm from the grassed play area, had a nickel concentration that exceeded the MOE Table A Effects Based Soil Criteria.

The nickel and copper soil results are similar to those reported historically, while the cobalt and chromium concentrations are higher than those previously reported. Previous MOE sampling of undisturbed soils approximately 0.5 km southwest of Montessori School of Sudbury, Station 378 of the MOE Sudbury 2000 Report for the City of Greater Sudbury (MOE 2001), indicated nickel and copper surface soil concentrations of 250 and 180 ppm, respectively. The highest cobalt and chromium concentrations previously reported were 13 and 23 ppm, respectively. Historic MOE sampling in the Sudbury area was of undeveloped surface soils which may not be representative of the materials sampled on this property.

Table B2.5.2: Concentration of 13 Elements in Soil in µg/g at Montessori School of Sudbury, 295 Victoria Street, Sudbury

Map ID	Station	Sample Number	Soil Depth	Sb	As	Ba	Cd	Cr	Co	Cu	Pb	Mo	Ni	Se	V	Zn
Area A grass	5037109	14216	0 - 5	< 0.8	5	35	< 0.8	28	7	80	13	< 1.5	110	< 1	26	31
		14217	0 - 5	< 0.8	6	44	< 0.8	32	10	150	24	< 1.5	210	1.1	28	39
Area B sand	5037110	14218	0 - 15	< 0.8	5	22	< 0.8	26	7	30	3	< 1.5	32	< 1	33	17
Area C gravel	5037111	14219	0 - 5	< 0.8	5	120	< 0.8	90	28	150	19	< 1.5	120	< 1	73	90
		14220	0 - 5	< 0.8	5	120	< 0.8	86	30	130	15	< 1.5	130	< 1	70	95
Table F (results in bold)				1.0	14	190	1.0	67	19	56	55	2.5	43	1.4	91	150
Table A (results in bold &				13	20	750	3.0	750	40	150	200	5.0	150	2.0	200	600
< - less than the Method Detection Limit.				Al, Ca, Fe, Mg, Mn, and Sr results can be found in Table 4.1.												

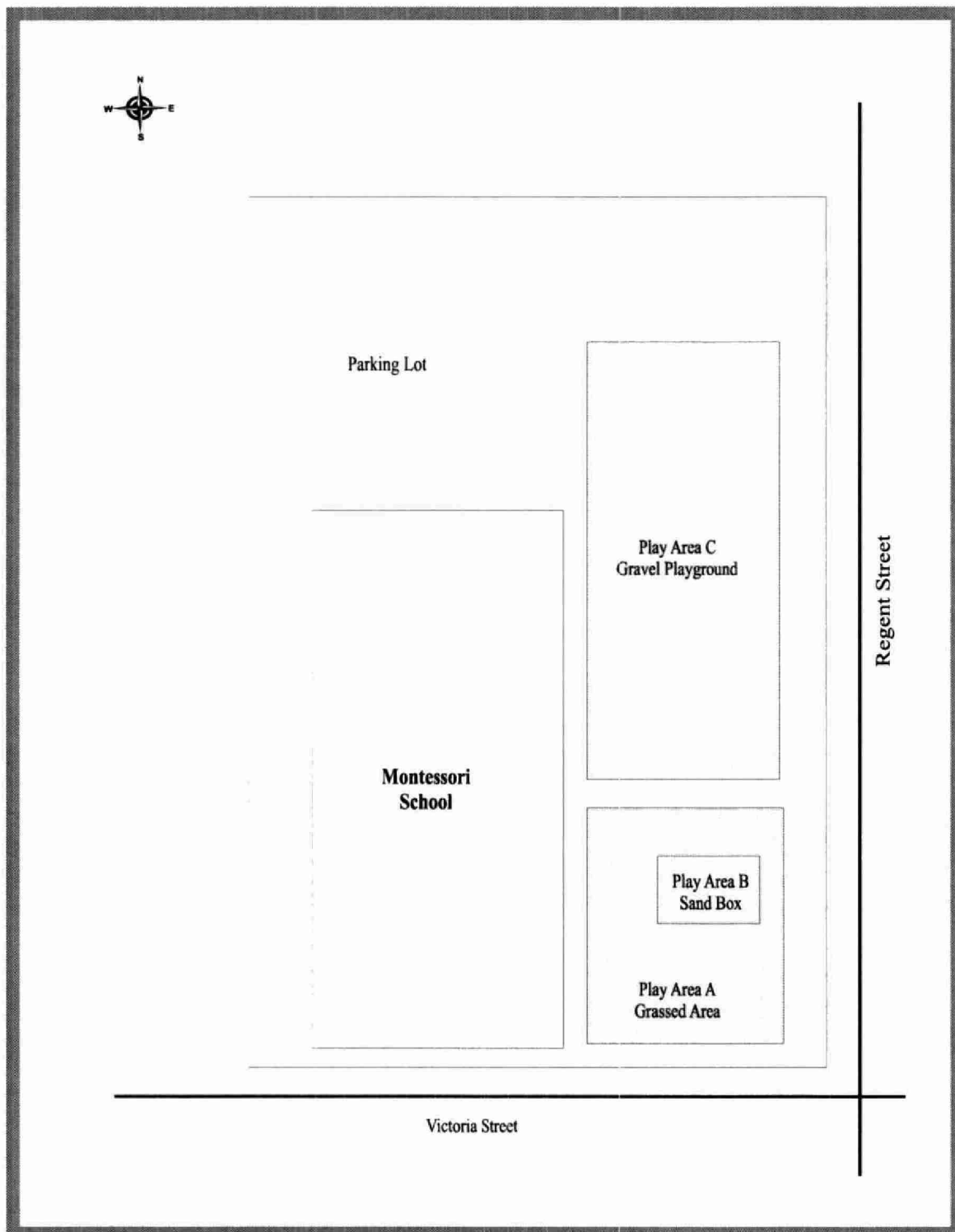


Figure B2.5.2: Montessori School Sampling Locations - 2001.

2.6 City of Sudbury Daycares

In June of 2001, the City of Sudbury, Health and Social Services, provided the MOE with an addressed list of all municipal daycare facilities. Sampling was carried out in July of 2001. Several facilities were not sampled for various reasons.

The following properties did not have any play areas to sample:

All Nations Children, 885 Prete Street, Sudbury
Dowling Co-op Nursery, 7 Douglas Street, Sudbury
Happy Tots Cooperative, at Sudbury Secondary School
Jubilee Heritage Centre, 169 Applegrove Street, Sudbury
Junior Citizens Daycare, 140 Durham Street, Sudbury
Larch Street Kids Child Care- Head Office, 199 Larch Street, Sudbury
YMCA Centre for Life, 140 Durham Street, Sudbury

Minnow Lake Co-op Nursery, 1305 Holland Street, Sudbury is located within a private residence and was not sampled.

The following properties were an intrinsic part of an associated school and therefore, the daycare data can be found with the school at which they are located:

Alexander Kids at Alexander Public School, 39 St. Brendan Street, Sudbury
All Nations - St. Christopher, 2843 CKSO Road, Sudbury
Beattie Kids at R.L. Beattie Public School, 102 Loach's Road, Sudbury
Cedar Park Daycare #2 at St. Raphael School, 1096 Dublin Street, Sudbury
C.R. Judd Daycare at C.R. Judd Public School, 8 Lincoln Street, Capreol
Garderie Jardiniere Francophone at E.P. Foyer Jeunesse, 4752 Rue Notre Dame, Hanmer
Princess Anne Kids at Princess Anne School, 500 Douglas Street, Sudbury
Services de Garde de Rayside-Balfour #2 at Chelmsford Public School, 121 Charlotte Street, Chelmsford
Teddy Bear Daycare at St. John School, 181 William Street, Garson
Walden Daycare Centre #2 at St. James School, 280 Anderson Drive, Lively

Only the properties that were on the list as of June 4, 2001 were sampled. Detailed sampling descriptions and site maps are provided in the following sections. For those daycares located within schools, sampling descriptions and site maps are provided in the section referenced.

2.6.1 Alexander Kids at Alexander Public School, 39 St. Brendan Street, Sudbury

This daycare is operated by Larch Street Kids and is located in the same building as Alexander Public School, Rainbow District School Board. See Alexander Public School for the discussion, results and map (Section 2.1.2).

2.6.2 All Nations -South End, 2690 Henri Street, Sudbury

All Nations South End was sampled on July 4, 2001. Samples were taken from five areas on the daycare property. Area A corresponds to the grassed play area on the front lawn of the house. Areas B and C correspond to sand samples collected from the sanded play areas in the southwest and northeast corners of the back yard. Due to the constant mixing and homogenous nature of the sanded areas, samples were collected with hand trowels to represent the 0-15 cm depth. Area D corresponds to the grassed play area on the east side of the house and fence. Area E corresponds to the grassed play area on the west side of the fence and in the north back yard play area. There was no impediment to sampling all three depths for the grassed play areas. All data were compared with the MOE Table F Ontario Soil Background Criteria and Table A Effects Based Soil Criteria (MOE 1997).

Metal concentrations were not elevated in the sanded play areas. The sand is not likely native to the daycare property and is believed to have been introduced when the play areas were constructed. Thus the sand was not expected to have elevated metal concentrations. Nickel (Ni) concentrations were elevated above the MOE Table F Ontario Soil Background Criteria in the surface soil of the front yard and for all samples collected from the back and side yard grassed play areas. Copper (Cu) was elevated above the MOE Table F Ontario Soil Background Criteria for selected sites from the back and side yard only.

The highest nickel concentration, 93 ppm, was found in the 10 - 20 cm depth of the side yard, while the highest copper concentration, 65 ppm, was found in the 5 - 10 cm depth of the back yard. All other metals listed, as well as aluminum (Al), calcium (Ca), iron (Fe), magnesium (Mg), manganese (Mn), and strontium (Sr) which are not listed, were below the MOE Table F Ontario Soil Background Criteria. There were no exceedences of the MOE Table A Effects Based Soil Criteria at this property.

These nickel and copper results fall within the lower end of the concentration ranges of those reported historically. Previous MOE sampling of undisturbed soils approximately 1 km west and 1 km northeast of All Nations South End, Stations 404 and 406, respectively, of the MOE Sudbury 2000 Report for the City of Greater Sudbury (MOE 2001), indicated nickel and copper surface soil concentration ranges of 58 to 120 and 57 to 110 ppm, respectively. Historic MOE sampling in the Sudbury area was of undeveloped surface soils which may not be representative of the materials sampled on this property.

Table B2.6.2: Concentration of 13 Elements in Soil in µg/g at All Nations -South End, 2690 Henri Street, Sudbury																
Map ID	Station	Sample Number	Soil Depth	Sb	As	Ba	Cd	Cr	Co	Cu	Pb	Mo	Ni	Se	V	Zn
Area A grass	5037008	14030	0 - 5	< 0.8	< 5	31	< 0.8	31	7	36	6	< 1.5	48	< 1	29	23
		14031	0 - 5	< 0.8	< 5	31	< 0.8	35	7	32	6	< 1.5	49	< 1	34	24
		14032	5 - 10	< 0.8	< 5	25	< 0.8	29	7	35	5	< 1.5	43	< 1	29	18
		14033	5 - 10	< 0.8	< 5	28	< 0.8	31	7	28	5	< 1.5	37	< 1	33	20
		14034	10 - 20	< 0.8	< 5	26	< 0.8	29	7	28	5	< 1.5	36	< 1	31	18
		14035	10 - 20	< 0.8	< 5	27	< 0.8	28	7	29	5	< 1.5	39	< 1	29	19
Area B sand	5037009	14036	0 - 15	< 0.8	< 5	14	< 0.8	23	4	14	3	< 1.5	16	< 1	27	14
		14037	0 - 15	< 0.8	< 5	14	< 0.8	24	3	15	2	< 1.5	11	< 1	26	14
Area C sand	5037010	14038	0 - 15	< 0.8	< 5	19	< 0.8	29	8	22	3	< 1.5	27	< 1	28	27
		14039	0 - 15	< 0.8	< 5	20	< 0.8	31	9	26	4	< 1.5	29	< 1	32	32
Area D grass	5037011	14040	0 - 5	< 0.8	< 5	25	< 0.8	30	7	33	6	< 1.5	46	< 1	23	20
		14041	0 - 5	< 0.8	< 5	30	< 0.8	35	9	38	7	< 1.5	58	< 1	25	27
		14042	5 - 10	< 0.8	< 5	27	< 0.8	25	6	32	7	< 1.5	51	< 1	25	17
		14043	5 - 10	< 0.8	< 5	27	< 0.8	25	6	30	7	< 1.5	45	< 1	26	19
		14044	10 - 20	< 0.8	6	33	< 0.8	27	7	63	14	< 1.5	93	< 1	28	28
		14045	10 - 20	< 0.8	6	26	< 0.8	22	6	39	9	< 1.5	58	< 1	24	17
Area E grass	5037012	14046	0 - 5	< 0.8	< 5	39	< 0.8	32	7	48	10	< 1.5	66	< 1	27	32
		14047	0 - 5	< 0.8	< 5	40	< 0.8	30	7	56	11	< 1.5	85	< 1	29	28
		14048	5 - 10	< 0.8	< 5	39	< 0.8	28	7	39	9	< 1.5	62	< 1	29	23
		14049	5 - 10	< 0.8	< 5	36	< 0.8	27	7	65	13	< 1.5	92	< 1	27	23
		14050	10 - 20	< 0.8	< 5	31	< 0.8	24	6	49	11	< 1.5	72	< 1	25	22
		14051	10 - 20	< 0.8	< 5	30	< 0.8	24	5	44	9	< 1.5	69	< 1	25	20
Table F (results in bold)				1.0	14	190	1.0	67	19	56	55	2.5	43	1.4	91	150
Table A (results in bold & underlined)				13	20	750	3.0	750	40	225	200	5.0	150	2.0	200	600
< - less than the Method Detection Limit. Al, Ca, Fe, Mg, Mn, and Sr results for this school can be found in Table 4.2																

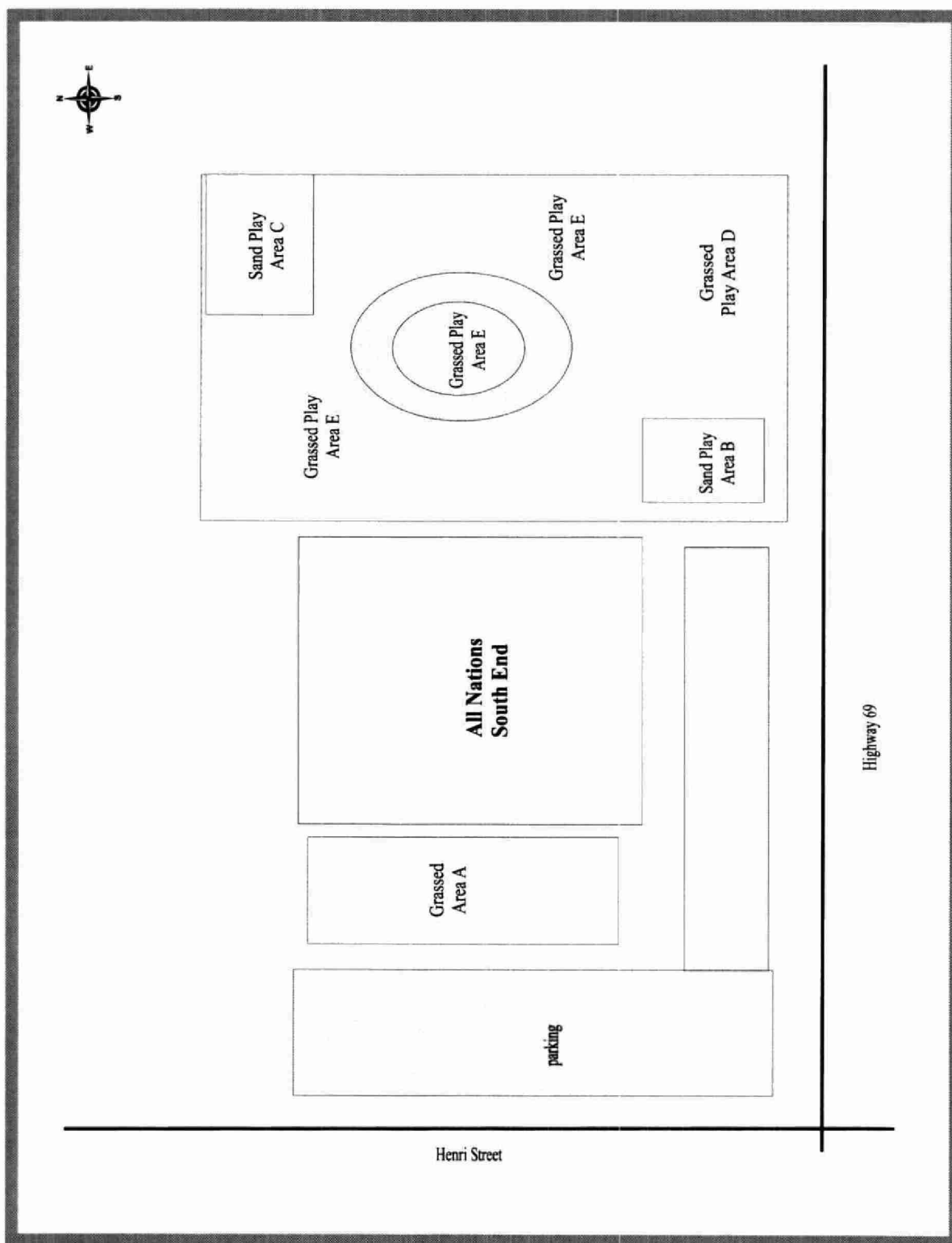


Figure B2.6.2: All Nations - South End Sampling Locations - 2001.

2.6.3 All Nations - St. Christopher, 2843 CKSO Road, Sudbury

This daycare is located in the same building as St. Christopher School, Sudbury Catholic District School Board. See St. Christopher School for the discussion, results and location of Area C - play structure (Section 2.2.14).

2.6.4 Beattie Kids, 102 Loach's Road, Sudbury

This daycare is operated by Larch Street Kids and is located in the same building as R.L. Beattie Public School, Rainbow District School Board. See R.L. Beattie Public School for the discussion, results and map (Section 2.1.32).

2.6.5 Capreol Child Care Centre at St. Mary, 26 Meehan Street, Capreol

Capreol Child Care Centre was sampled on July 20, 2001. Samples were taken from two areas on St. Mary property. Area A corresponds to sand samples collected from beneath the play structure and Area B corresponds to sand samples collected from the sand box. Both areas are located on the south side of St. Mary's School. Due to the constant mixing and homogenous nature of the sanded areas, samples were collected with hand trowels to represent the 0-15 cm depth. All data were compared with the MOE Table F Ontario Soil Background Criteria and Table A Effects Based Soil Criteria (MOE 1997).

Metal concentrations were not elevated in either the sand beneath the play structure or from the sand box. The sand is not likely native to the property and is believed to have been introduced when the play areas were constructed. Thus the sand was not expected to have elevated metal concentrations. All other metals listed, as well as aluminum (Al), calcium (Ca), iron (Fe), magnesium (Mg), manganese (Mn), and strontium (Sr) which are not listed, were below the MOE Table F Ontario Soil Background Criteria. There were no exceedences of the MOE Table A Effects Based Soil Criteria at this property.

These nickel and copper results are lower than those reported historically. Previous MOE sampling of undisturbed soils approximately 2 km north and 0.5 km south of Capreol Child Care Centre, Stations 352 and 351, respectively, of the MOE Sudbury 2000 Report for the City of Greater Sudbury (MOE 2001), indicated nickel and copper surface soil concentration ranges of 130 to 330 and 110 to 300 ppm, respectively. Historic MOE sampling in the Sudbury area was of undeveloped surface soils which may not be representative of the materials sampled on this property.

Table B2.6.5: Concentration of 13 Elements in Soil in µg/g at Capreol Child Care Centre at St. Mary, 26 Meehan Street, Capreol																
Map ID	Station	Sample Number	Soil Depth	Sb	As	Ba	Cd	Cr	Co	Cu	Pb	Mo	Ni	Se	V	Zn
Area A sand	5037353	14580	0 - 15	< 0.8	< 5	15	< 0.8	21	4	10	3	< 1.5	15	< 1	24	14
Area B sand		14581	0 - 15	< 0.8	< 5	14	< 0.8	18	4	7	3	< 1.5	13	< 1	20	12
Table F (results in bold)				1.0	14	190	1.0	67	19	56	55	2.5	43	1.4	91	150
Table A (results in bold & underlined)				13	20	750	3.0	750	40	225	200	5.0	150	2.0	200	600
< - less than the Method Detection Limit. Al, Ca, Fe, Mg, Mn, and Sr results for this school can be found in Table 4.2																

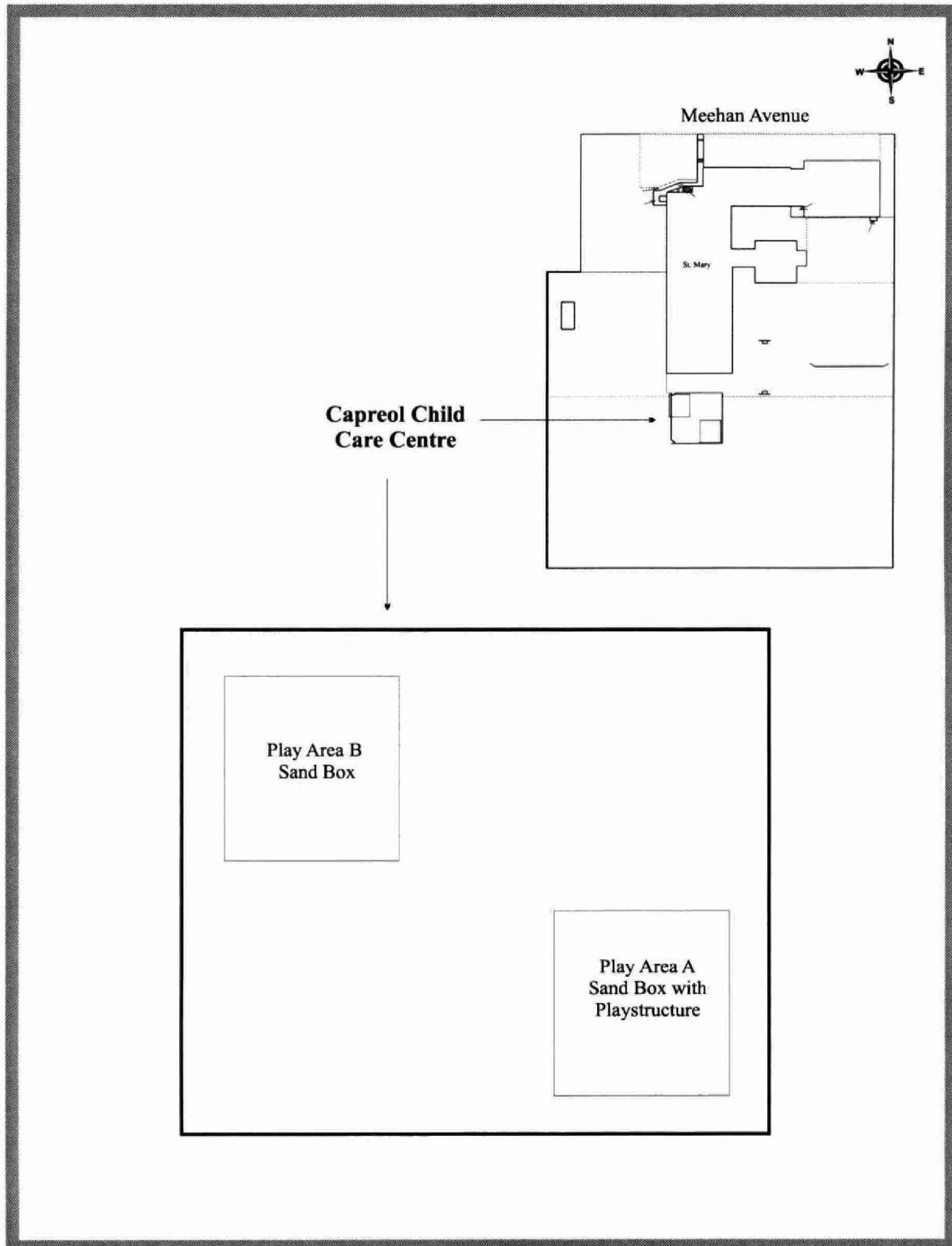


Figure B2.6.5: Capreol Child Care Centre Sampling Locations - 2001.

2.6.6 Cedar Park Daycare #1, 1073 Beaumont Street, Sudbury

Cedar Park Daycare was sampled on July 23, 2001. Samples were taken from two areas on the daycare property. Area A corresponds to the grassed play area in the back yard. Due to the compacted nature of the grassed area, or the presence of bedrock at shallow depths, it was only possible to sample the surface soil layer (0-5 cm). Area B corresponds to sand samples collected from the sanded play areas on the west side of the backyard. Due to the constant mixing and homogenous nature of the sanded areas, samples were collected with hand trowels to represent the 0-15 cm depth. All data were compared with the MOE Table F Ontario Soil Background Criteria and Table A Effects Based Soil Criteria (MOE 1997).

Metal concentrations were not elevated in the sanded play areas. The sand is not likely native to the daycare property and is believed to have been introduced when the play areas were constructed. Thus the sand was not expected to have elevated metal concentrations. Nickel (Ni), copper (Cu), and selenium (Se) concentrations were elevated above the MOE Table F Ontario Soil Background Criteria in the surface soil of the back yard. The highest nickel, copper, and selenium concentrations found were 130, 130, and 1.6 ppm, respectively. All other metals listed, as well as aluminum (Al), calcium (Ca), iron (Fe), magnesium (Mg), manganese (Mn), and strontium (Sr) which are not listed, were below the MOE Table F Ontario Soil Background Criteria. There were no exceedences of the MOE Table A Effects Based Soil Criteria at this property.

These nickel, copper, and selenium results fall within the concentration ranges of those reported historically. Previous MOE sampling of undisturbed soils approximately 1.5 km northeast and 1 km south of Cedar Park Daycare, Stations 6 and 86, respectively, of the MOE Sudbury 2000 Report for the City of Greater Sudbury (MOE 2001), indicated nickel, copper, and selenium surface soil concentration ranges of 56 to 375, 35 to 305, and 0.28 to 1.7 ppm, respectively.

Historic MOE sampling in the Sudbury area was of undeveloped surface soils which may not be representative of the materials sampled on this property.

Table B2.6.6: Concentration of 13 Elements in Soil in µg/g at Cedar Park Daycare, 1073 Beaumont Street, Sudbury																
Map ID	Station	Sample Number	Soil Depth	Sb	As	Ba	Cd	Cr	Co	Cu	Pb	Mo	Ni	Se	V	Zn
Area A grass	5037206	14839	0 - 5	< 0.8	< 5	53	< 0.8	34	8	99	15	< 1.5	110	1.6	31	48
		14840	0 - 5	< 0.8	< 5	57	0.9	32	9	130	21	< 1.5	130	1.5	32	62
Area B sand	5037207	14841	0 - 15	< 0.8	< 5	21	< 0.8	26	6	15	3	< 1.5	24	< 1	23	19
		14842	0 - 15	< 0.8	< 5	17	< 0.8	23	5	19	3	< 1.5	26	< 1	26	18
Table F (results in bold)				1.0	14	190	1.0	67	19	56	55	2.5	43	1.4	91	150
Table A (results in bold & underlined)				13	20	750	3.0	750	40	225	200	5.0	150	2.0	200	600
< - less than the Method Detection Limit. Al, Ca, Fe, Mg, Mn, and Sr results for this school can be found in Table 4.2																

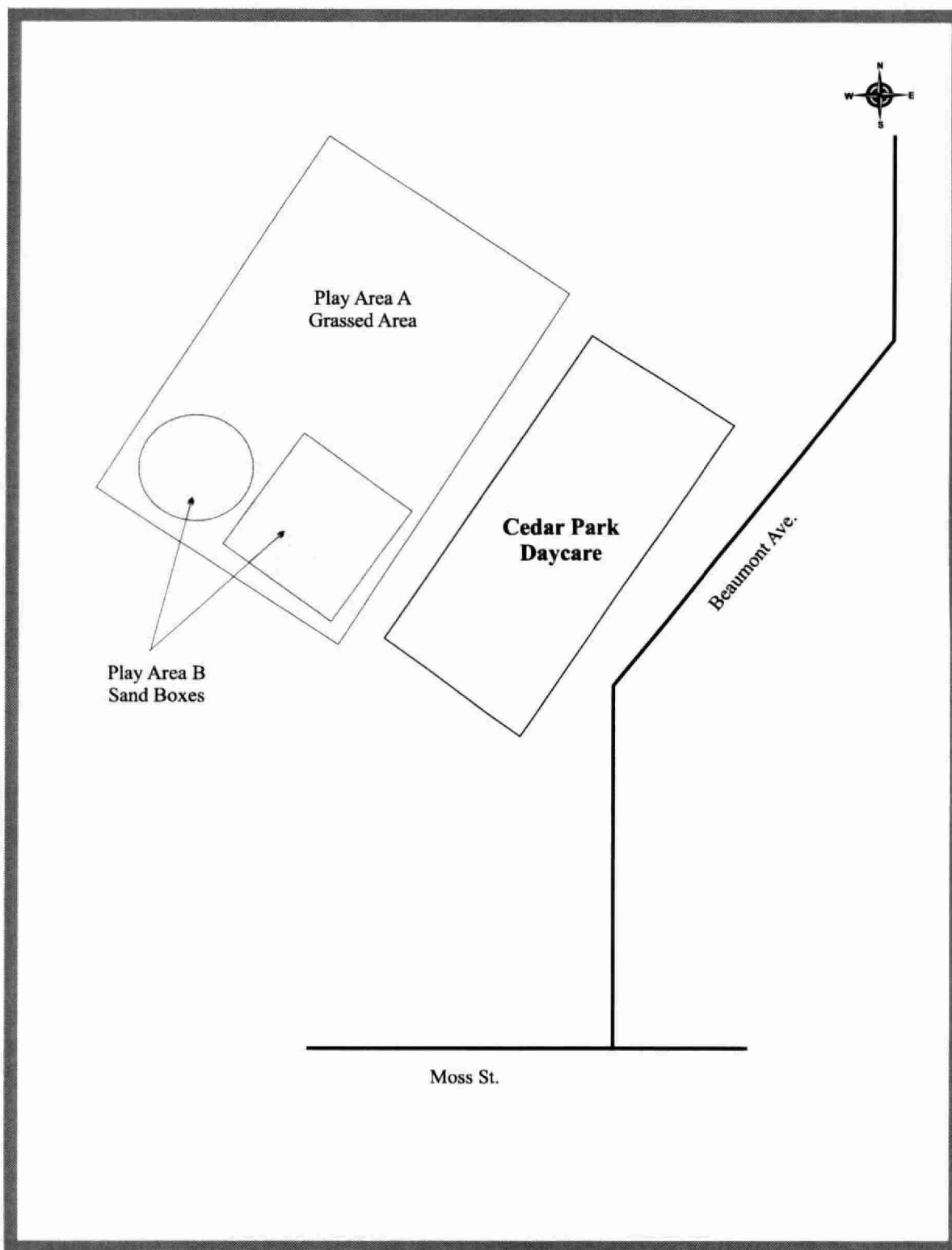


Figure B2.6.6: Cedar Park Daycare Sampling Locations - 2001.

2.6.7 Cedar Park Daycare #2 at St. Raphael School, 1096 Dublin Street, Sudbury

This daycare is located in the same building as St. Raphael School, Sudbury Catholic District School Board. See St. Raphael School for the discussion, results and map (Section 2.2.23).

2.6.8 Centre Educatif Etoile du Nord at College Boreal, 21 Lasalle Boulevard, Sudbury

Centre Educatif Etoile du Nord was sampled on July 19, 2001. Samples were taken from two areas on the daycare property. Areas A and B correspond to sand samples collected from below the west and east play structures, respectively. Due to the constant mixing and homogenous nature of the sanded areas, samples were collected with hand trowels to represent the 0-15 cm depth. All data were compared with the MOE Table F Ontario Soil Background Criteria and Table A Effects Based Soil Criteria (MOE 1997).

Nickel (Ni) and copper (Cu) concentrations were elevated in the sand beneath the play structures. The sand is not likely native to the daycare property and is believed to have been introduced when the sanded play areas were constructed. Thus the sand was not expected to have elevated metal concentrations. There were not any other play areas surrounding these sanded areas. It is not known if the sand was placed on bare soil when the sanded play areas were constructed. All other metals listed, as well as aluminum (Al), calcium (Ca), iron (Fe), magnesium (Mg), manganese (Mn), and strontium (Sr) which are not listed, were below the MOE Table F Ontario Soil Background Criteria. There were no exceedences of the MOE Table A Effects Based Soil Criteria at this property.

These nickel and copper results are lower than those reported historically. Previous MOE sampling of undisturbed soils approximately 1 km west and 1 km northeast of Centre Educatif Etoile Du Nord, Stations 362 and 337, respectively, of the MOE Sudbury 2000 Report for the City of Greater Sudbury (MOE 2001), indicated nickel and copper surface soil concentrations as high as 530 and 450 ppm, respectively. Historic MOE sampling in the Sudbury area was of undeveloped surface soils which may not be representative of the materials sampled on this property.

Table B2.6.8: Concentration of 13 Elements in Soil in µg/g at Centre Educatif Etoile du Nord at College Boreal, 21 Lasalle Boulevard, Sudbury

Map ID	Station	Sample Number	Soil Depth	Sb	As	Ba	Cd	Cr	Co	Cu	Pb	Mo	Ni	Se	V	Zn
Area A sand	5037201	14477	0 - 15	< 0.8	7	26	< 0.8	25	13	92	7	< 1.5	90	< 1	29	41
Area B sand	5037202	14478	0 - 15	< 0.8	6	24	< 0.8	23	11	69	6	< 1.5	65	< 1	29	32
Table F (results in bold)				1.0	14	190	1.0	67	19	56	55	2.5	43	1.4	91	150
Table A (results in bold & underlined)				13	20	750	3.0	750	40	225	200	5.0	150	2.0	200	600
< - less than the Method Detection Limit.																
Al, Ca, Fe, Mg, Mn, and Sr results for this school can be found in Table 4.2.																

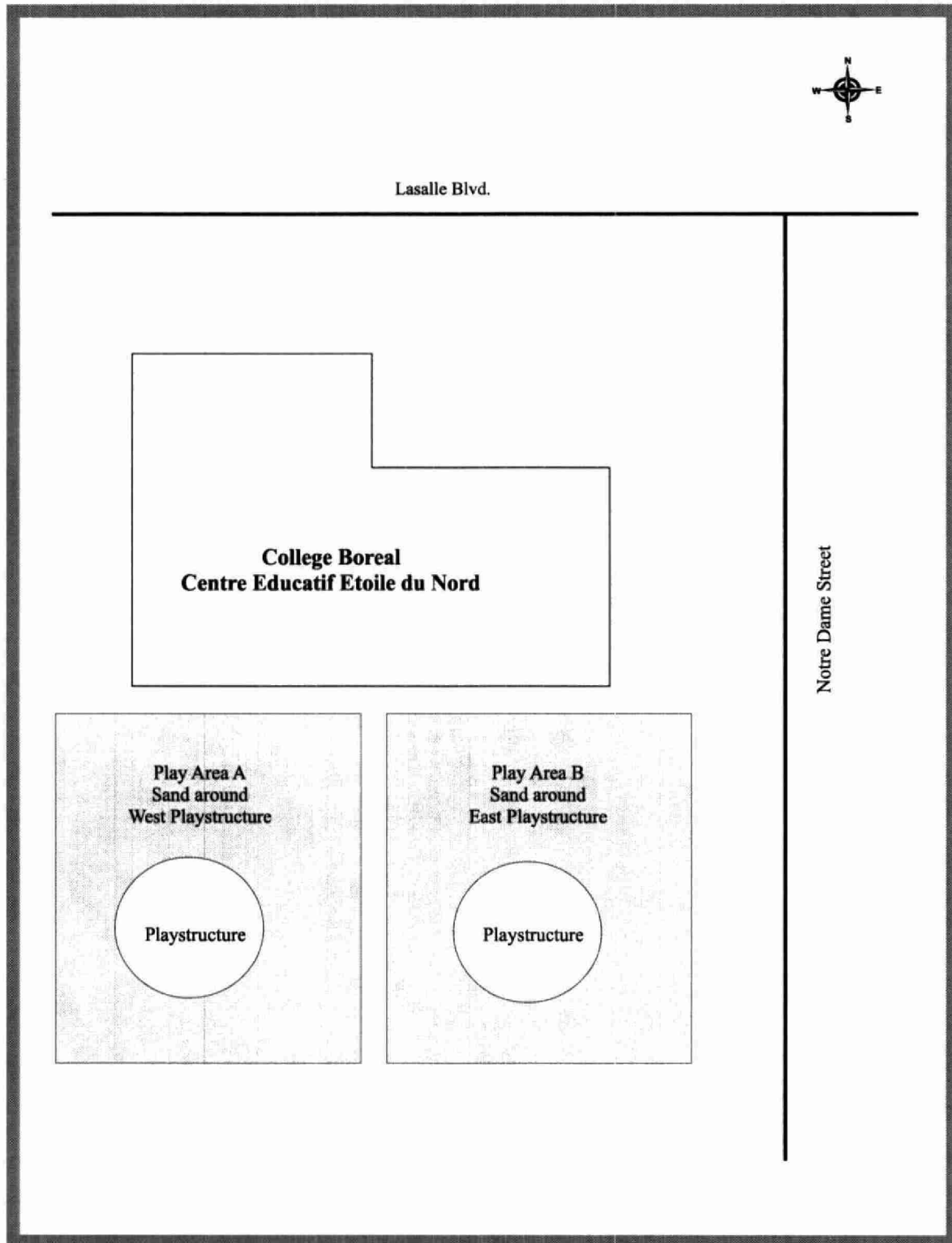


Figure B2.6.8: Centre Educatif Etoile du Nord Sampling Locations - 2001.

2.6.9 Circle of Friends, 106 Arlington Drive, Dowling

Circle of Friends was sampled on July 19, 2001. Samples were taken from one area on the daycare property. Area A corresponds to sand samples collected from the sand box behind the building. Due to the constant mixing and homogenous nature of the sanded areas, samples were collected with hand trowels to represent the 0-15 cm depth. All data were compared with the MOE Table F Ontario Soil Background Criteria and Table A Effects Based Soil Criteria (MOE 1997).

Metal concentrations were not elevated in the sand from the sand box. The sand is not likely native to the daycare property and is believed to have been introduced when the play area was constructed. Thus the sand was not expected to have elevated metal concentrations. All other metals listed, as well as aluminum (Al), calcium (Ca), iron (Fe), magnesium (Mg), manganese (Mn), and strontium (Sr) which are not listed, were below the MOE Table F Ontario Soil Background Criteria. There were no exceedences of the MOE Table A Effects Based Soil Criteria at this property.

These nickel and copper results are lower than those reported historically. Previous MOE sampling of undisturbed soils approximately 2.5 km west, 3 km southwest, and 3.5 km northeast of Circle of Friends, Stations 389, 391, and 388, respectively, of the MOE Sudbury 2000 Report for the City of Greater Sudbury (MOE 2001), indicated nickel and copper surface soil concentration ranges of 25 to 83 and 14 to 69 ppm, respectively. Historic MOE sampling in the Sudbury area was of undeveloped surface soils which may not be representative of the materials sampled on this property.

Table B2.6.9: Concentration of 13 Elements in Soil in µg/g at Circle of Friends, 106 Arlington Drive, Dowling																	
Map ID	Station	Sample Number	Soil Depth	Sb	As	Ba	Cd	Cr	Co	Cu	Pb	Mo	Ni	Se	V	Zn	
Area A sand	5037405	14561	0 - 15	< 0.8	< 5	16	< 0.8	25	5	10	2	< 1.5	16	< 1	29	14	
Table F (results in bold)				1.0	14	190	1.0	67	19	56	55	2.5	43	1.4	91	150	
Table A (results in bold & underlined)				13	20	750	3.0	750	40	225	200	5.0	150	2.0	200	600	
< - less than the Method Detection Limit. Al, Ca, Fe, Mg, Mn, and Sr results for this school can be found in Table 4.2.																	

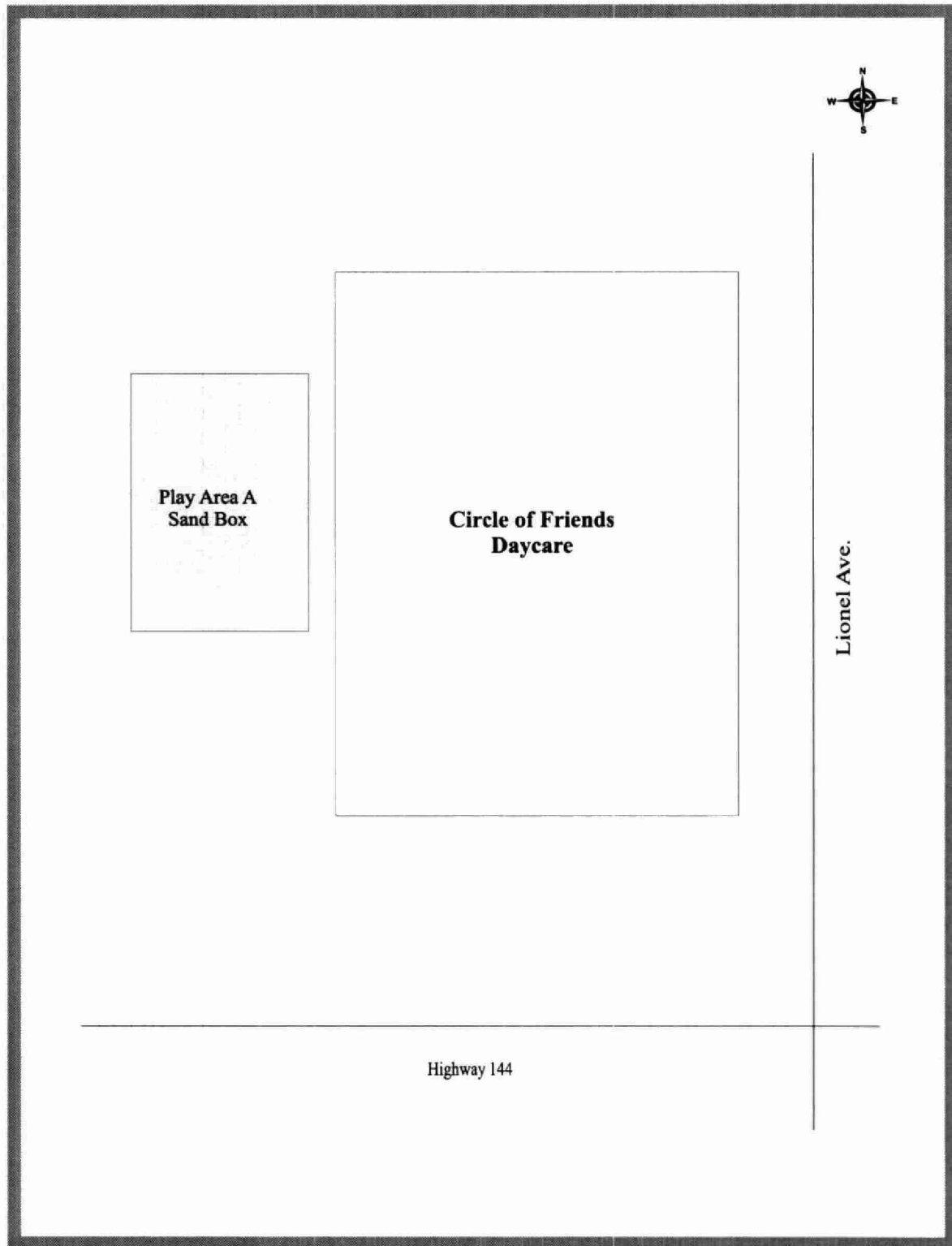


Figure B2.6.9: Circle of Friends Daycare Sampling Locations - 2001.

2.6.10 Cotton Candy Daycare, 298 College Street, Sudbury

Cotton Candy Daycare was sampled on July 16, 2001. Samples were taken from two areas on the daycare property. Areas A and B correspond to sand samples collected from the sanded play areas in the east and west corners of the daycare property, respectively. Due to the constant mixing and homogenous nature of the sanded areas, samples were collected with hand trowels to represent the 0-15 cm depth. All data were compared with the MOE Table F Ontario Soil Background Criteria and Table A Effects Based Soil Criteria (MOE 1997).

Metal concentrations were not elevated in the sand from either sanded play area. The sand is not likely native to the daycare property and is believed to have been introduced when the play areas were constructed. Thus the sand was not expected to have elevated metal concentrations. All other metals listed, as well as aluminum (Al), calcium (Ca), iron (Fe), magnesium (Mg), manganese (Mn), and strontium (Sr) which are not listed, were below the MOE Table F Ontario Soil Background Criteria. There were no exceedences of the MOE Table A Effects Based Soil Criteria at this property.

These nickel and copper results are much lower than those reported historically. Previous MOE sampling of undisturbed soils approximately 1 km west of Cotton Candy Daycare, Station 84, of the MOE Sudbury 2000 Report for the City of Greater Sudbury (MOE 2001), indicated nickel and copper surface soil concentrations as high as 490 and 520 ppm, respectively. Historic MOE sampling in the Sudbury area was of undeveloped surface soils which may not be representative of the materials sampled on this property.

Table B2.6.10: Concentration of 13 Elements in Soil in µg/g at Cotton Candy Daycare, 298 College Street, Sudbury																
Map ID	Station	Sample Number	Soil Depth	Sb	As	Ba	Cd	Cr	Co	Cu	Pb	Mo	Ni	Se	V	Zn
Area A sand	5037113	14257	0 - 15	< 0.8	< 5	20	< 0.8	27	6	21	3	< 1.5	27	< 1	30	17
		14258	0 - 15	< 0.8	< 5	17	< 0.8	28	5	20	3	< 1.5	25	< 1	31	17
Area B sand	5037114	14259	0 - 15	< 0.8	< 5	27	< 0.8	30	8	36	4	< 1.5	39	< 1	32	24
		14260	0 - 15	< 0.8	< 5	24	< 0.8	29	8	36	4	< 1.5	39	< 1	31	22
Table F (results in bold)				1.0	14	190	1.0	67	19	56	55	2.5	43	1.4	91	150
Table A (results in bold & underlined)				13	20	750	3.0	750	40	225	200	5.0	150	2.0	200	600
< - less than the Method Detection Limit. Al, Ca, Fe, Mg, Mn, and Sr results for this school can be found in Table 4.2																

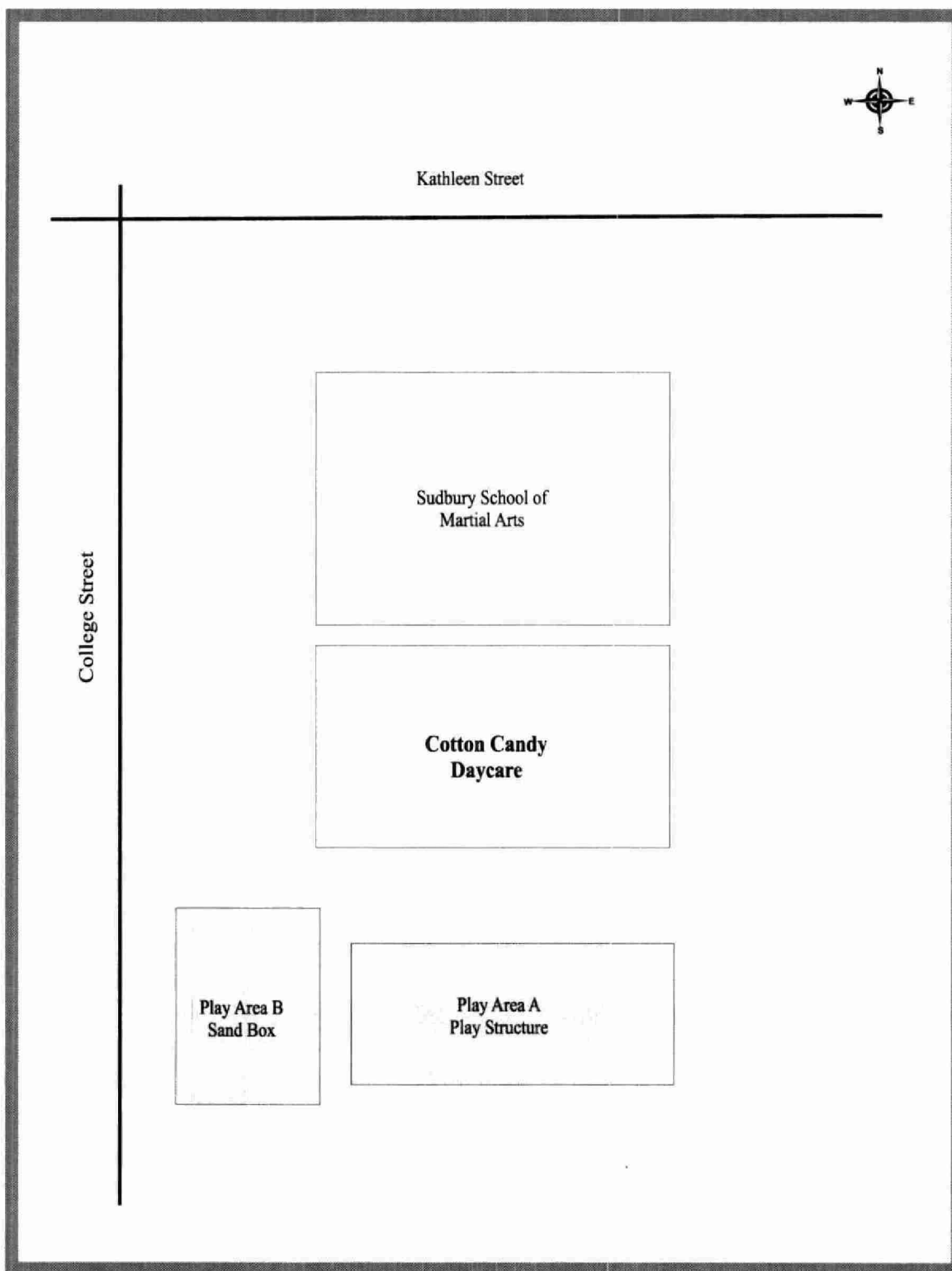


Figure B2.6.10: Cotton Candy Daycare Sampling Locations - 2001.

2.6.11 C.R. Judd Daycare at C.R. Judd Public School, 8 Lincoln Street, Capreol

This daycare is located in the same building as C.R. Judd Public School, Rainbow District School Board. See C.R. Judd Public School for the discussion, results and map (Section 2.1.4).

2.6.12 Garderie du Triangle Magique at St. Agnes, 80 Rue Landry, Azilda

Garderie du Triangle Magique was sampled on July 19, 2001. Samples were taken from six areas on the daycare property. Areas A and B correspond to the sand box and grassed play area in the south fenced play area, respectively. Areas C and D correspond to the sand box and grassed area in the centre fenced play area, respectively. Areas E and F correspond to the sand box and grassed area in the north fenced play area, respectively. Due to the constant mixing and homogenous nature of the sanded areas, samples were collected with hand trowels to represent the 0-15 cm depth. In addition, due to the compacted nature of the grassed areas, it was only possible to sample the surface soil (0-5 cm). All data were compared with the MOE Table F Ontario Soil Background Criteria and Table A Effects Based Soil Criteria (MOE 1997).

Metal concentrations were not elevated in either of the south or centre sand boxes. Arsenic (As) was elevated above the MOE Table A Effects Based Soil Criteria for the sand collected from the north sand box. The origin of the sand is not known, however, it is believed to have been introduced when the play areas were constructed. Thus the sand was not expected to have elevated metalloid concentrations. Nickel (Ni) concentrations were elevated above the MOE Table F Ontario Soil Background Criteria in the surface soil of all of the grassed play areas. Copper (Cu) was elevated above the MOE Table F Ontario Soil Background Criteria for one replicate sample from the south grassed area. The highest nickel and copper concentrations, 71 and 64 ppm, respectively, occurred in the surface soil of the south grassed area. All other metals listed, as well as aluminum (Al), calcium (Ca), iron (Fe), magnesium (Mg), manganese (Mn), and strontium (Sr) which are not listed, were below the MOE Table F Ontario Soil Background Criteria. There were no exceedences of the MOE Table A Effects Based Soil Criteria at this property.

These nickel, copper, and arsenic results fall within the lower end of the concentration ranges of those reported historically. Previous MOE sampling of undisturbed soils approximately 2 km northeast and 2 km southeast of Garderie du Triangle Magique, Stations 92, 91, and 90, respectively, of the MOE Sudbury 2000 Report for the City of Greater Sudbury (MOE 2001), indicated nickel, copper, and arsenic surface soil concentration ranges of 36 to 770, 37 to 820 and 10 to 48 ppm, respectively. Historic MOE sampling in the Sudbury area was of undeveloped surface soils which may not be representative of the materials sampled on this property.

Table B2.6.12: Concentration of 13 Elements in Soil in µg/g at Garderie du Triangle Magique at St. Agnes, 80 Rue Landry, Azilda																
Map ID	Station	Sample Number	Soil Depth	Sb	As	Ba	Cd	Cr	Co	Cu	Pb	Mo	Ni	Se	V	Zn
Area A sand	5037365	14487	0 - 15	< 0.8	< 5	13	< 0.8	21	4	8	2	< 1.5	15	< 1	23	13
Area B grass	5037366	14488	0 - 5	< 0.8	5	31	< 0.8	28	6	54	12	< 1.5	69	< 1	27	32
		14489	0 - 5	< 0.8	< 5	34	< 0.8	30	7	64	14	< 1.5	71	< 1	28	29
Area C sand	5037367	14490	0 - 15	< 0.8	< 5	11	< 0.8	21	3	8	2	< 1.5	14	< 1	21	15
Area D grass	5037368	14491	0 - 5	< 0.8	5	30	< 0.8	25	6	54	14	< 1.5	65	< 1	26	31
		14492	0 - 5	< 0.8	5	27	< 0.8	24	5	35	10	< 1.5	44	< 1	24	28
Area E sand	5037369	14493	0 - 15	< 0.8	<u>23</u>	12	< 0.8	30	3	27	2	< 1.5	14	< 1	26	15
Area F grass	5037370	14494	0 - 5	< 0.8	6	27	< 0.8	24	5	45	11	< 1.5	53	< 1	24	25
		14495	0 - 5	< 0.8	6	28	< 0.8	25	5	46	11	< 1.5	54	< 1	26	25
Table F (results in bold)				1.0	14	190	1.0	67	19	56	55	2.5	43	1.4	91	150
Table A (results in bold & underlined)				13	20	750	3.0	750	40	225	200	5.0	150	2.0	200	600
< - less than the Method Detection Limit. Al, Ca, Fe, Mg, Mn, and Sr results for this school can be found in Table 4.2																

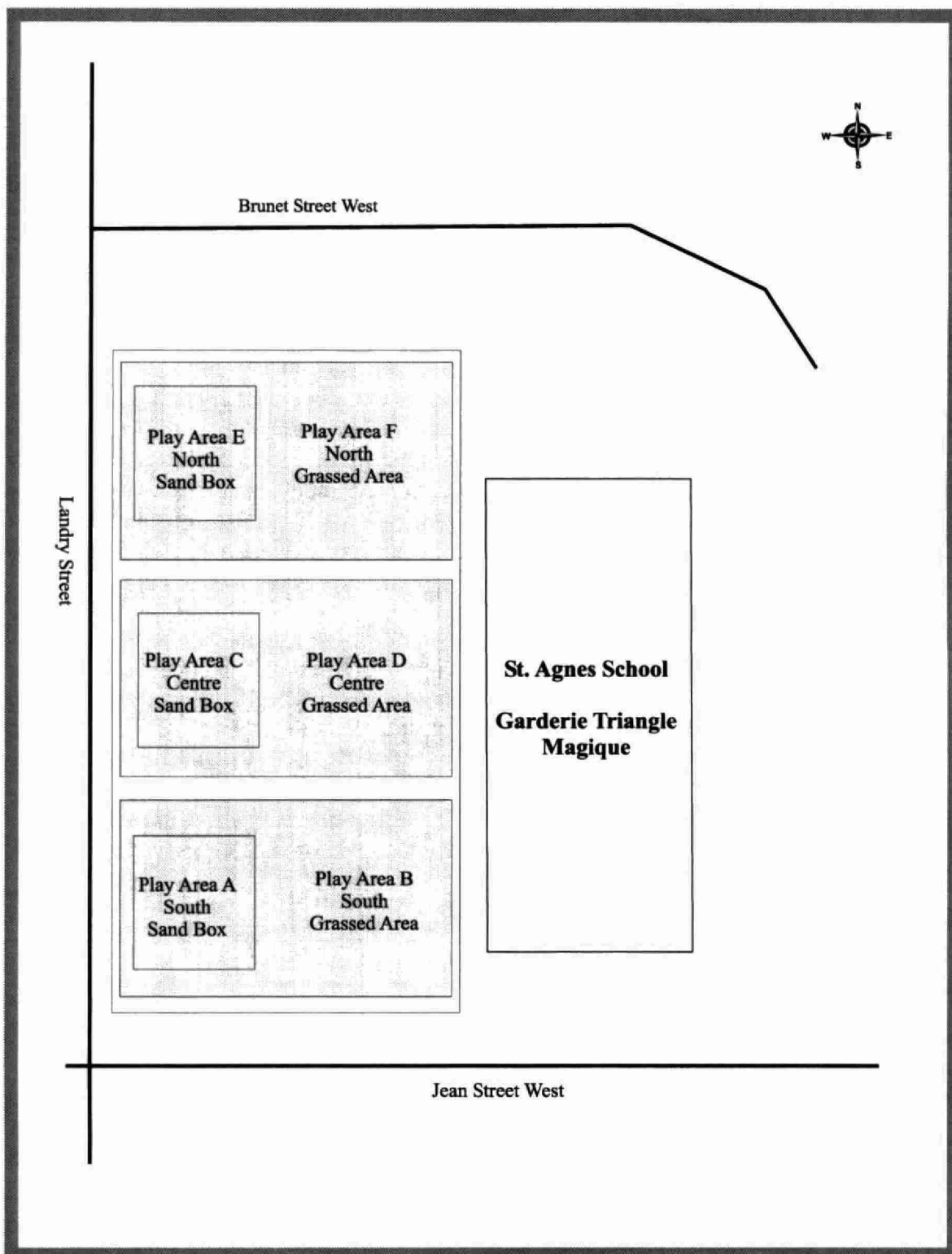


Figure B2.6.12: Garderie Triangle Magique Sampling Locations - 2001.

2.6.13 Garderie Jardiniere Francophone formerly at Foyer Jeunesse, 4752 rue Notre Dame, Hanmer

Garderie Jardiniere Francophone was sampled on July 20, 2001 and has since closed. Samples were taken from two areas on the Foyer Jeunesse property. Area A corresponds to sand samples collected from below the play structure. Area B corresponds to the gravel playground. Due to the constant mixing and homogenous nature of the sanded areas, sand samples were collected with hand trowels to represent the 0-15 cm depth. Hand trowels were also used to collect the gravel samples to represent the 0-5 cm depth. All data were compared with the MOE Table F Ontario Soil Background Criteria and Table A Effects Based Soil Criteria (MOE 1997).

Metal concentrations were not elevated in the sand beneath the play structure. The sand present is not likely native to the daycare property and is believed to have been introduced when the play area was constructed. Thus the sand was not expected to have elevated metal concentrations. Nickel (Ni), copper (Cu), and cobalt (Co) concentrations were elevated in both of the gravel playground samples. The highest nickel, copper and cobalt concentrations found were 67, 80, and 33 ppm, respectively. All other metals listed, as well as aluminum (Al), calcium (Ca), iron (Fe), magnesium (Mg), manganese (Mn), and strontium (Sr) which are not listed, were below the MOE Table F Ontario Soil Background Criteria. There were no exceedences of the MOE Table A Effects Based Soil Criteria at this property.

These nickel and copper results fall within the lower end of the concentration ranges of those reported historically, while the elevated cobalt concentrations are higher than previously reported. Previous MOE sampling of undisturbed soils approximately 1 km southwest, 2.5 km northwest, and 2 km east of Garderie Jardiniere Francophone (formerly), Stations 347, 346, and 350, respectively, of the MOE Sudbury 2000 Report for the City of Greater Sudbury (MOE 2001), indicated nickel and copper surface soil concentration ranges of 43 to 150 and 35 to 110 ppm, respectively. The highest cobalt concentration previously reported at these historic sites was 7.4 ppm. Historic MOE sampling in the Sudbury area was of undeveloped surface soils which may not be representative of the materials sampled on this property.

Table B2.6.13: Concentration of 13 Elements in Soil in µg/g at Garderie Jardiniere Francophone formerly at Foyer Jeunesse, 4752 rue Notre Dame, Hanmer

Map ID	Station	Sample Number	Soil Depth	Sb	As	Ba	Cd	Cr	Co	Cu	Pb	Mo	Ni	Se	V	Zn
Area A sand	5037325	14625	0 - 15	< 0.8	< 5	22	< 0.8	32	6	27	4	< 1.5	22	< 1	36	35
Area B gravel	5037326	14626	0 - 5	< 0.8	< 5	20	< 0.8	32	33	80	13	< 1.5	67	< 1	33	53
		14627	0 - 5	< 0.8	< 5	22	< 0.8	32	22	60	11	< 1.5	48	< 1	31	41
Table F (results in bold)				1.0	14	190	1.0	67	19	56	55	2.5	43	1.4	91	150
Table A (results in bold & underlined)				13	20	750	3.0	750	40	225	200	5.0	150	2.0	200	600
< - less than the Method Detection Limit.				Al, Ca, Fe, Mg, Mn, and Sr results for this school can be found in Table 4.2.												

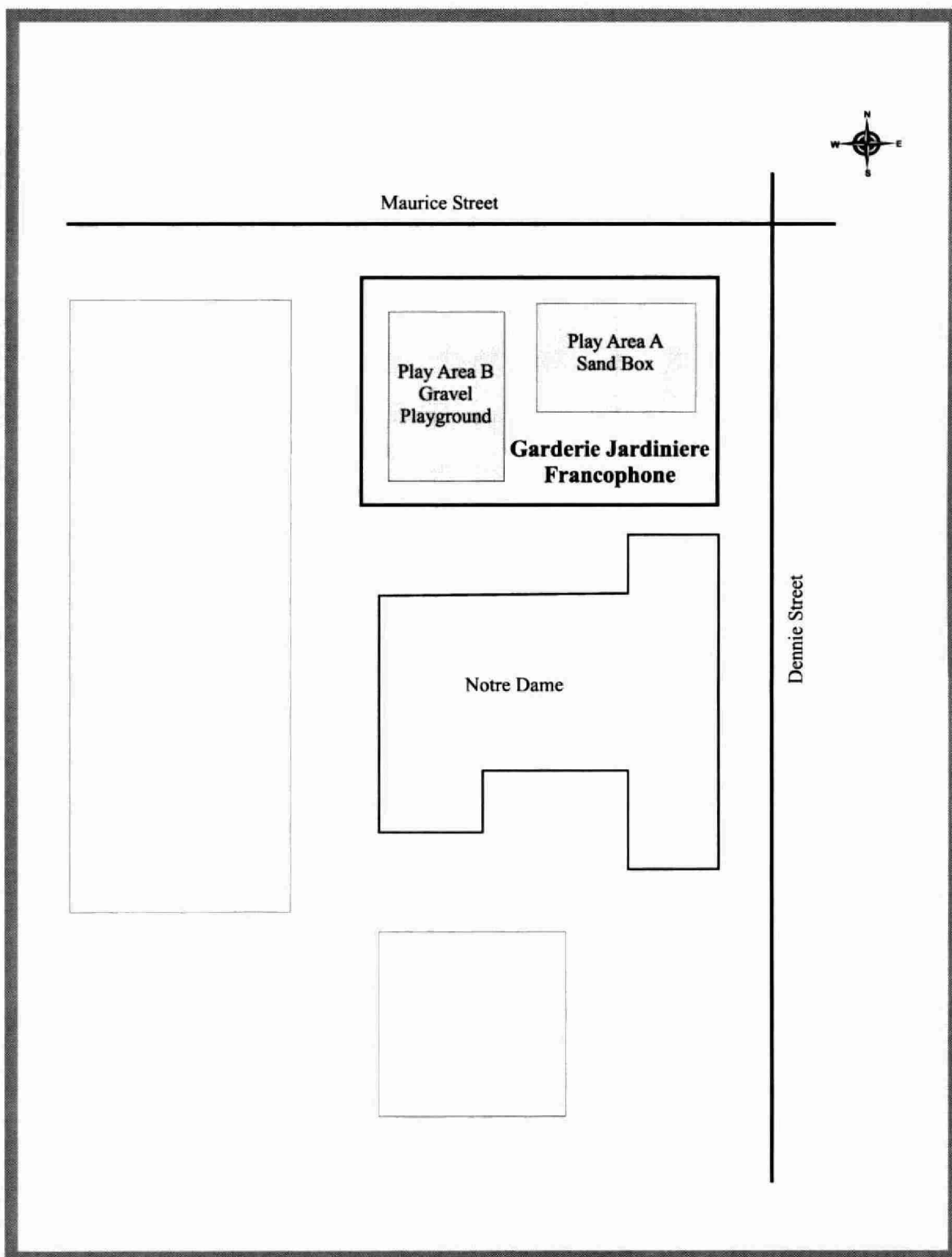


Figure B2.6.13: Garderie Jardiniere Francophone Sampling Locations - 2001.

2.6.14 Garderie Jardiniere Francophone at E.P. Foyer Jeunesse, 4752 Rue Notre Dame, Hanmer

This daycare was located in the same building as E.P. Foyer Jeunesse, Conseil Scolaire du District de Grand Nord de L'Ontario. See E.P. Foyer Jeunesse for the discussion, results and location of daycare play areas A and B (Section 2.3.3).

2.6.15 Jubilee Heritage Centre formerly at St. Francis, 691 Lilac Street, Sudbury

Jubilee Heritage Centre was sampled on July 5, 2001 but has since closed. Samples were taken from two areas on the daycare property. Area A corresponds to the soil playground beside the sanded play structure on the north side of St. Francis school building. Area B corresponds to sand samples collected from below the play structure. Due to the constant mixing and homogenous nature of the sanded areas, samples were collected with hand trowels to represent the 0-15 cm depth. All data were compared with the MOE Table F Ontario Soil Background Criteria and Table A Effects Based Soil Criteria (MOE 1997).

Metal concentrations were not elevated in the sand from beneath the play structure. The sand present is not likely native to the daycare property and is believed to have been introduced when the play structure was constructed. Thus the sand was not expected to have elevated metal concentrations. Nickel (Ni) concentrations were elevated above the MOE Table F Ontario Soil Background Criteria in the surface soil of both samples from the soil from beside the play structure. Copper (Cu) was elevated above the MOE Table F Ontario Soil Background Criteria for one replicate sample from the soil playground. The highest nickel and copper concentrations found were 74 and 62 ppm, respectively. All other metals listed, as well as aluminum (Al), calcium (Ca), iron (Fe), magnesium (Mg), manganese (Mn), and strontium (Sr) which are not listed, were below the MOE Table F Ontario Soil Background Criteria. There were no exceedences of the MOE Table A Effects Based Soil Criteria at this property.

These nickel and copper results are much lower than those reported historically. Previous MOE sampling of undisturbed soils approximately 1 km north, 1 km southwest, and 1.5 km west of Jubilee Heritage Centre (formerly), Stations 378, 73, and 74, respectively, of the MOE Sudbury 2000 Report for the City of Greater Sudbury (MOE 2001), indicated nickel and copper surface soil concentration ranges of 145 to 790 and 158 to 740 ppm, respectively. Historic MOE sampling in the Sudbury area was of undeveloped surface soils which may not be representative of the materials sampled on this property.

Table B2.6.15: Concentration of 13 Elements in Soil in µg/g at Jubilee Heritage Centre formerly at St. Francis, 691 Lilac Street, Sudbury																
Map ID	Station	Sample Number	Soil Depth	Sb	As	Ba	Cd	Cr	Co	Cu	Pb	Mo	Ni	Se	V	Zn
Area A soil	5037072	14146	0 - 5	< 0.8	< 5	31	< 0.8	30	8	56	7	< 1.5	69	< 1	28	27
		14147	0 - 5	< 0.8	< 5	27	< 0.8	29	8	62	7	< 1.5	74	< 1	28	26
Area B sand	5037073	14148	0 - 15	< 0.8	< 5	21	< 0.8	27	7	22	3	< 1.5	25	< 1	26	18
Table F (results in bold)				1.0	14	190	1.0	67	19	56	55	2.5	43	1.4	91	150
Table A (results in bold & underlined)				13	20	750	3.0	750	40	225	200	5.0	150	2.0	200	600
< - less than the Method Detection Limit. Al, Ca, Fe, Mg, Mn, and Sr results for this school can be found in Table 4.2.																

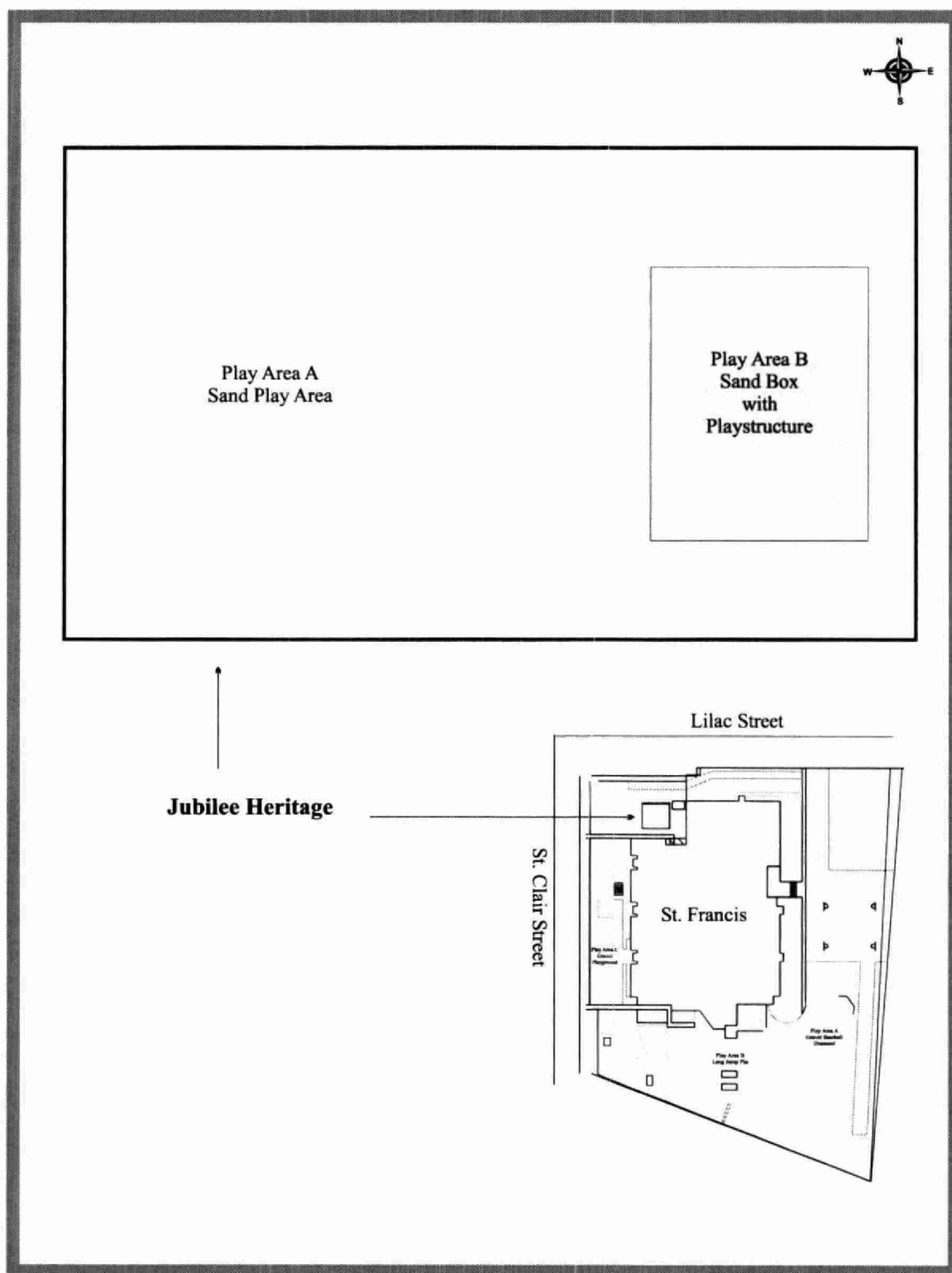


Figure B2.6.15: Jubilee Heritage Sampling Locations - 2001.

2.6.16 Junior Citizens Daycare (formerly Little Ones Corner), 210 Lloyd Street, Sudbury

Junior Citizens Daycare, formerly named Little Ones Corner, was sampled on July 16, 2001. At the time of sampling, its temporary location was at 210 Lloyd Street. The new permanent location, 41 Ramsey Lake Road, has not been sampled. Samples were taken from three areas on the daycare property. Area A corresponds to the grassed play area on the west side of the property. Due to the compacted nature of the grassed play area, it was only possible to sample the surface soil (0-5 cm). Areas B and C correspond to sand samples collected from the north and south sanded play areas, respectively. Due to the constant mixing and homogenous nature of the sanded areas, samples were collected with hand trowels to represent the 0-15 cm depth. All data were compared with the MOE Table F Ontario Soil Background Criteria and Table A Effects Based Soil Criteria (MOE 1997).

Metal concentrations were not elevated in the sand samples collected from either sanded play area. The sand present is not likely native to the daycare property and is believed to have been introduced when the play areas were constructed. Thus the sand was not expected to have elevated metal concentrations. Nickel (Ni) and copper (Cu) concentrations were elevated above the MOE Table F Ontario Soil Background Criteria in both of the surface soil samples from the grassed play area. The highest nickel and copper concentrations found were 94 and 86 ppm, respectively. All other metals listed, as well as aluminum (Al), calcium (Ca), iron (Fe), magnesium (Mg), manganese (Mn), and strontium (Sr) which are not listed, were below the MOE Table F Ontario Soil Background Criteria. There were no exceedences of the MOE Table A Effects Based Soil Criteria at this property.

These nickel and copper results are much lower than those reported historically. Previous MOE sampling of undisturbed soils approximately 1.5 km northwest and 1 km southeast of Junior Citizens Daycare, Stations 84 and 75, respectively, of the MOE Sudbury 2000 Report for the City of Greater Sudbury (MOE 2001), indicated nickel and copper surface soil concentration ranges of 230 to 830 and 230 to 820 ppm, respectively. Historic MOE sampling in the Sudbury area was of undeveloped surface soils which may not be representative of the materials sampled on this property.

Table B2.6.16: Concentration of 13 Elements in Soil in µg/g at Junior Citizens Daycare (formerly Little Ones Corner), 210 Lloyd Street, Sudbury																	
Map ID	Station	Sample Number	Soil Depth	Sb	As	Ba	Cd	Cr	Co	Cu	Pb	Mo	Ni	Se	V	Zn	
Area A grass	5037136	14238	0 - 5	< 0.8	< 5	41	< 0.8	34	8	86	16	< 1.5	94	< 1	30	46	
		14239	0 - 5	< 0.8	< 5	39	< 0.8	35	9	67	11	< 1.5	76	< 1	31	38	
Area B sand	5037137	14240	0 - 15	< 0.8	< 5	22	< 0.8	30	7	32	6	< 1.5	33	< 1	27	24	
		14241	0 - 15	< 0.8	< 5	29	< 0.8	34	8	32	5	< 1.5	36	< 1	33	30	
Area C sand	5037138	14242	0 - 15	< 0.8	< 5	22	< 0.8	26	7	35	7	< 1.5	40	< 1	23	26	
		14243	0 - 15	< 0.8	< 5	22	< 0.8	27	7	38	7	< 1.5	43	< 1	25	27	
Table F (results in bold)				1.0	14	190	1.0	67	19	56	55	2.5	43	1.4	91	150	
Table A (results in bold & underlined)				13	20	750	3.0	750	40	225	200	5.0	150	2.0	200	600	
< - less than the Method Detection Limit.				Al, Ca, Fe, Mg, Mn, and Sr results for this school can be found in Table 4.2.													

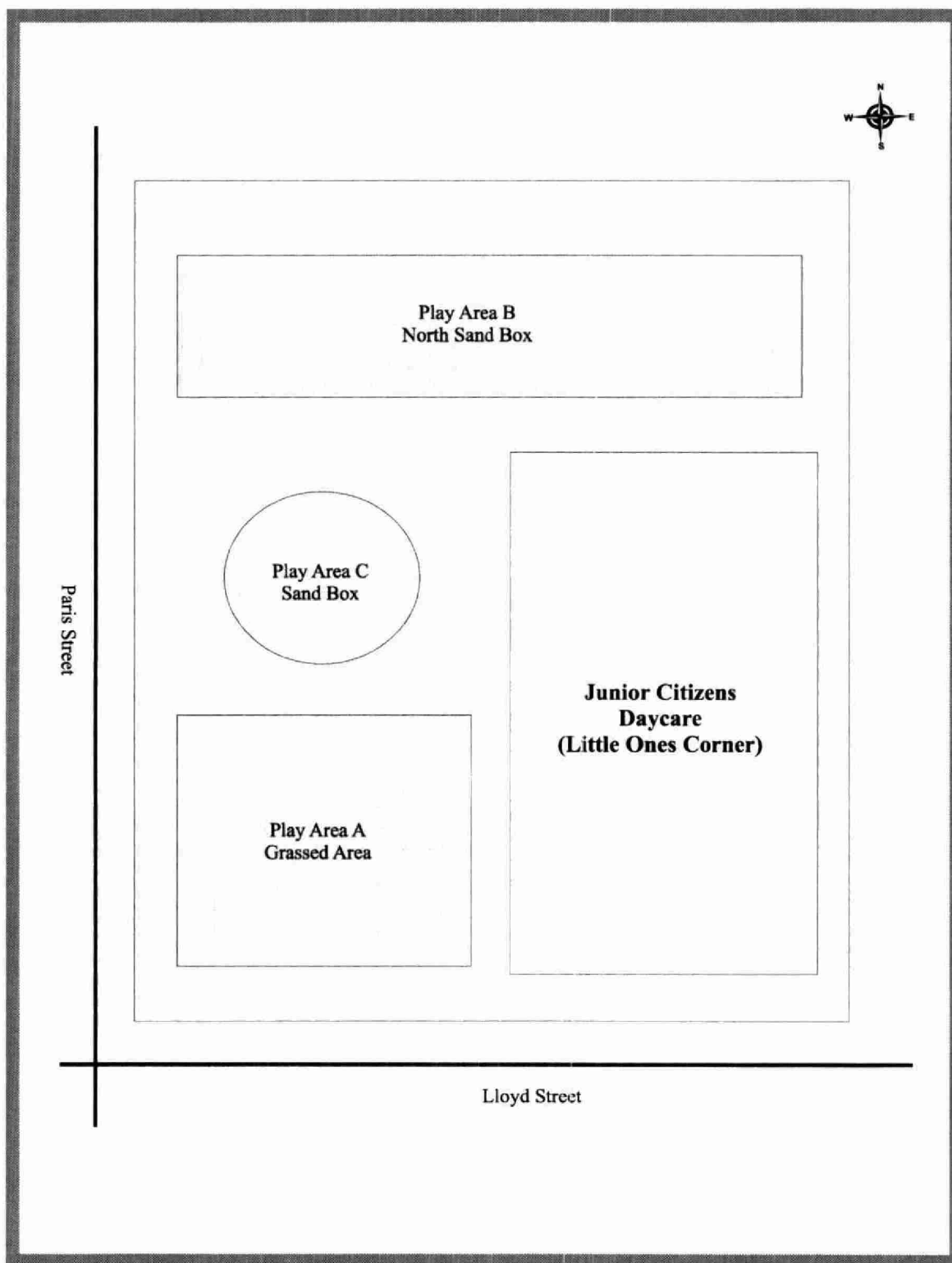


Figure B2.6.16: Junior Citizens Daycare (formerly Little Ones Corner) Sampling Locations - 2001.

2.6.17 La Garderie Touche a Tout, Laurentian University

La Garderie Touche a Tout was sampled on July 5, 2001. Samples were taken from four areas on the daycare property. Areas A and C correspond to sand samples collected from the west and east sanded play areas, respectively. Due to the constant mixing and homogenous nature of the sanded areas, samples were collected with hand trowels to represent the 0-15 cm depth. Areas B and D correspond to the west and east grassed play areas, respectively. Due to the compacted nature of these grassed areas, or the presence of bedrock at shallow depths, it was only possible to sample the surface soil (0-5 cm). All data were compared with the MOE Table F Ontario Soil Background Criteria and Table A Effects Based Soil Criteria (MOE 1997).

Metal concentrations were not elevated in sand from either sanded play area. The sand present is not likely native to the daycare property and is believed to have been introduced when the play areas were constructed. Thus the sand was not expected to have elevated metal concentrations. Nickel (Ni) concentrations were elevated above the MOE Table F Ontario Soil Background Criteria in the surface soil of both samples from the both grassed play areas. The highest nickel concentration found was 73 ppm. All other metals listed, as well as aluminum (Al), calcium (Ca), iron (Fe), magnesium (Mg), manganese (Mn), and strontium (Sr) which are not listed, were below the MOE Table F Ontario Soil Background Criteria. There were no exceedences of the MOE Table A Effects Based Soil Criteria at this property.

These nickel and copper results are much lower than those reported historically. Previous MOE sampling of undisturbed soils approximately 1 km north, 2.5 km northwest, and 2 km southwest of Garderie Touche a Tout, Stations 19, 74, and 365, respectively, of the MOE Sudbury 2000 Report for the City of Greater Sudbury (MOE 2001), indicated nickel and copper surface soil concentration ranges of 145 to 1000 and 190 to 980 ppm, respectively. Historic MOE sampling in the Sudbury area was of undeveloped surface soils which may not be representative of the materials sampled on this property.

Table B2.6.17: Concentration of 13 Elements in Soil in µg/g at La Garderie Touche a Tout, Laurentian University																
Map ID	Station	Sample Number	Soil Depth	Sb	As	Ba	Cd	Cr	Co	Cu	Pb	Mo	Ni	Se	V	Zn
Area A sand	5037058	14126	0 - 15	< 0.8	< 5	20	< 0.8	25	6	22	3	< 1.5	24	< 1	31	18
Area B grass	5037059	14127	0 - 5	< 0.8	< 5	40	< 0.8	37	6	37	9	< 1.5	57	< 1	34	24
		14128	0 - 5	< 0.8	< 5	40	< 0.8	37	6	39	9	< 1.5	58	< 1	33	24
Area C sand	5037060	14129	0 - 15	< 0.8	< 5	19	< 0.8	24	6	15	2	< 1.5	21	< 1	29	14
Area D grass	5037061	14130	0 - 5	< 0.8	< 5	44	< 0.8	36	8	49	10	< 1.5	73	< 1	35	31
		14131	0 - 5	< 0.8	< 5	40	< 0.8	34	7	43	9	< 1.5	64	< 1	32	25
Table F (results in bold)				1.0	14	190	1.0	67	19	56	55	2.5	43	1.4	91	150
Table A (results in bold & underlined)				13	20	750	3.0	750	40	225	200	5.0	150	2.0	200	600
< - less than the Method Detection Limit. Al, Ca, Fe, Mg, Mn, and Sr results for this school can be found in Table 4.2																

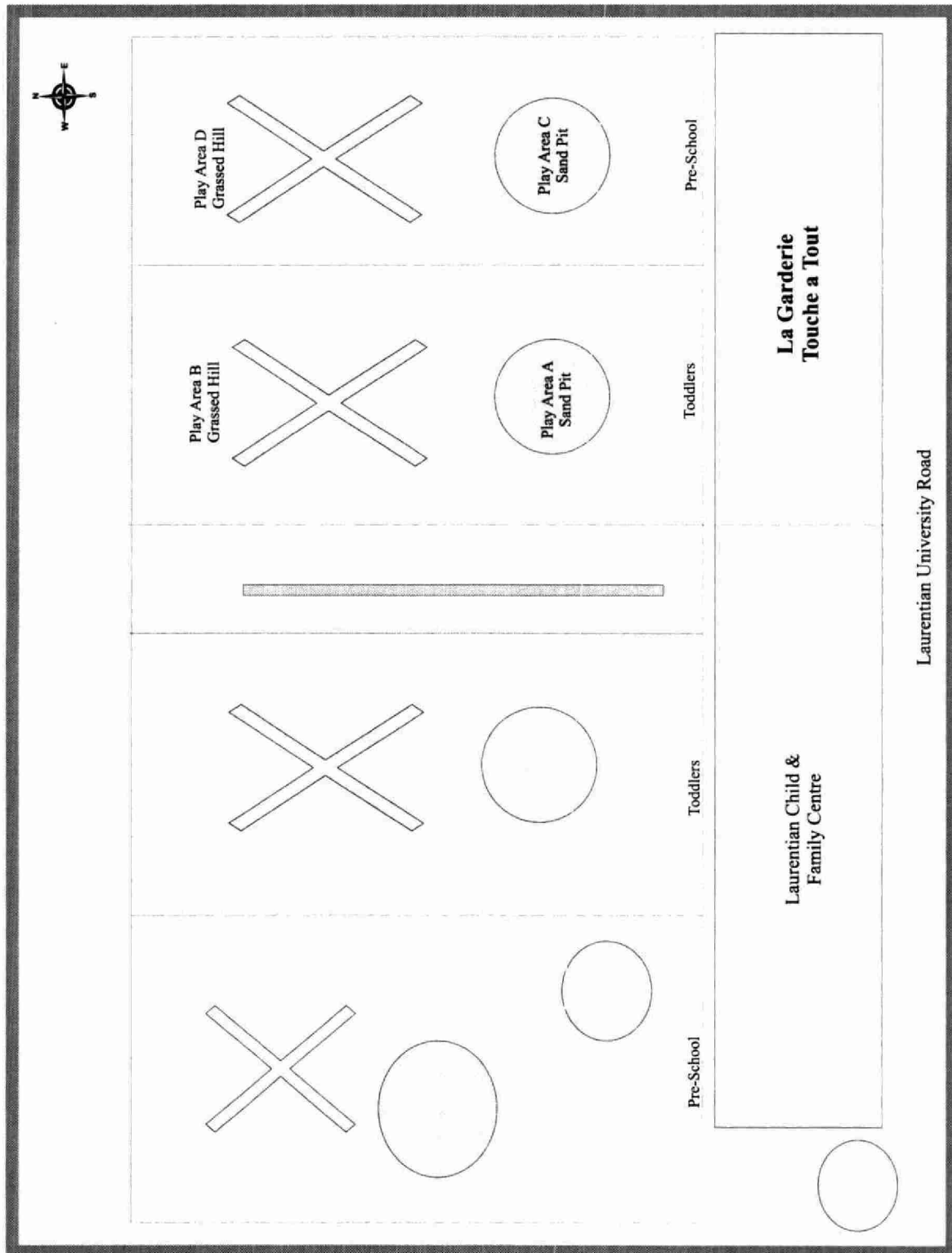


Figure B2.6.17: La Garderie Touche a Tout Sampling Locations - 2001.

2.6.18 Laurentian Child & Family Centre, Laurentian University

Laurentian Child and Family Centre was sampled on July 5, 2001. Samples were taken from seven areas on the daycare property. Area A corresponds to sand samples collected from the pile of sand from the parking lot that was purchased to use in the sanded play areas. Area B corresponds to sand samples collected from beneath the play structure located in the west play area. Areas C and D correspond to sand samples collected from the west and east sanded play areas, respectively. Due to the constant mixing and homogenous nature of the sanded areas, samples were collected with hand trowels to represent the 0-15 cm depth. Areas E and F correspond to the west and east grassed play areas, respectively. Area G corresponds to the long narrow grassed play area on the east edge of the Laurentian Child and Family Centre play area. Due to the compacted nature of these grassed areas, or the presence of bedrock at shallow depths, it was only possible to sample the surface soil (0-5 cm). All data were compared with the MOE Table F Ontario Soil Background Criteria and Table A Effects Based Soil Criteria (MOE 1997).

Metal concentrations were not elevated in sand from either sanded play area. The sand present is not likely native to the daycare property and is believed to have been introduced when the play areas were constructed. Thus the sand was not expected to have elevated metal concentrations. Nickel (Ni) concentrations were elevated above the MOE Table F Ontario Soil Background Criteria in the surface soil of all samples from the grassed play areas. The highest nickel concentration found was 60 ppm. All other metals listed, as well as aluminum (Al), calcium (Ca), iron (Fe), magnesium (Mg), manganese (Mn), and strontium (Sr) which are not listed, were below the MOE Table F Ontario Soil Background Criteria. There were no exceedences of the MOE Table A Effects Based Soil Criteria at this property.

Table B2.6.18: Concentration of 13 Elements in Soil in µg/g at Laurentian Child & Family Centre, Laurentian University																
Map ID	Station	Sample Number	Soil Depth	Sb	As	Ba	Cd	Cr	Co	Cu	Pb	Mo	Ni	Se	V	Zn
Area A sand	5037062	14115	0 - 15	< 0.8	< 5	12	< 0.8	15	3	6	2	< 1.5	11	< 1	16	9
Area B sand	5037063	14116	0 - 15	< 0.8	< 5	17	< 0.8	24	6	16	3	< 1.5	22	< 1	29	16
		14117	0 - 15	< 0.8	< 5	17	< 0.8	24	6	17	3	< 1.5	22	< 1	31	16
Area C sand	5037064	14122	0 - 15	< 0.8	< 5	16	< 0.8	20	4	8	2	< 1.5	12	< 1	22	10
Area D sand	5037065	14123	0 - 15	< 0.8	< 5	23	< 0.8	30	8	25	3	< 1.5	29	< 1	33	18
Area E grass	5037066	14118	0 - 5	< 0.8	< 5	42	< 0.8	37	6	37	10	< 1.5	59	< 1	34	28
		14119	0 - 5	< 0.8	< 5	44	< 0.8	37	6	37	10	< 1.5	60	< 1	35	28
Area F grass	5037067	14120	0 - 5	< 0.8	< 5	44	< 0.8	38	6	39	10	< 1.5	60	< 1	35	30
		14121	0 - 5	< 0.8	5	45	< 0.8	41	6	37	11	< 1.5	58	< 1	35	31
Area G grass	5037068	14124	0 - 5	< 0.8	< 5	46	< 0.8	38	6	41	10	< 1.5	60	< 1	35	30
		14125	0 - 5	< 0.8	6	45	< 0.8	37	6	41	10	< 1.5	60	< 1	34	31
Table F (results in bold)				1.0	14	190	1.0	67	19	56	55	2.5	43	1.4	91	150
Table A (results in bold & underlined)				13	20	750	3.0	750	40	225	200	5.0	150	2.0	200	600
< - less than the Method Detection Limit.				Al, Ca, Fe, Mg, Mn, and Sr results for this school can be found in Table 4.2												

These nickel and copper results are much lower than those reported historically. Previous MOE sampling of undisturbed soils approximately 1 km north, 2.5 km northwest, and 2 km southwest of Laurentian Child and Family Centre, Stations 19, 74, and 365, respectively, of the MOE Sudbury 2000 Report for the City of Greater Sudbury (MOE 2001), indicated nickel and copper surface soil concentration ranges of 145 to 1000 and 190 to 980 ppm, respectively. Historic MOE sampling in

the Sudbury area was of undeveloped surface soils which may not be representative of the materials sampled on this property.

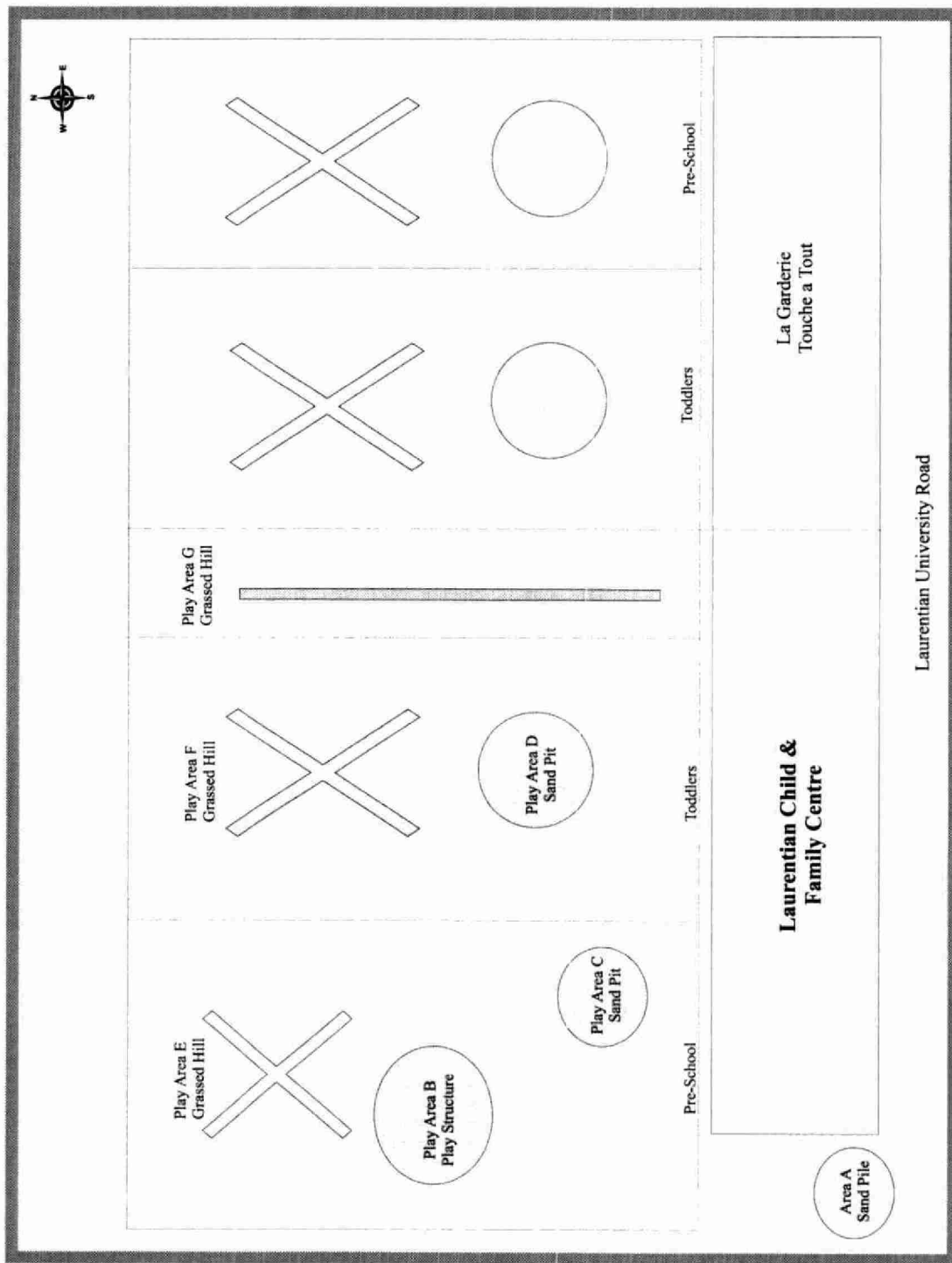


Figure B2.6.18: Laurentian Child & Family Centre Daycare Sampling Locations - 2001.

2.6.19 Maple Tree Preschool Inc. #1, 158 John Street, Sudbury

Maple Tree Preschool Inc. #1 was sampled on July 5, 2001. Samples were taken from two areas on the daycare property. Area A corresponds to the grassed play area surrounding the sand box. Area B corresponds to sand samples collected from the sand box. Due to the constant mixing and homogenous nature of the sanded areas, samples were collected with hand trowels to represent the 0-15 cm depth. All data were compared with the MOE Table F Ontario Soil Background Criteria and Table A Effects Based Soil Criteria (MOE 1997).

Metal concentrations were not elevated in the sand collected from the sand box. The sand present is not likely native to the daycare property and is believed to have been introduced when the sand box was constructed. Thus the sand was not expected to have elevated metal concentrations. Nickel (Ni) and copper (Cu) concentrations were elevated in selected samples from the grassed play area. The highest nickel and copper concentrations, 160 ppm each, were found in the 10 - 20 cm depth layer of the grassed play area. All other metals listed, as well as aluminum (Al), calcium (Ca), iron (Fe), magnesium (Mg), manganese (Mn), and strontium (Sr) which are not listed, were below the MOE Table F Ontario Soil Background Criteria. There was one nickel value that exceeded the MOE Table A Effects Based Soil Criteria at this property.

These nickel and copper results are lower than those reported historically. Previous MOE sampling of undisturbed soils approximately 1.5 km northwest, 0.7 km southwest, and 1 km northeast of Maple Tree Preschool Inc. #1, Stations 378, 74, and 75, respectively, of the MOE Sudbury 2000 Report for the City of Greater Sudbury (MOE 2001), indicated nickel and copper surface soil concentration ranges of 145 to 830 and 180 to 820 ppm, respectively. Historic MOE sampling in the Sudbury area was of undeveloped surface soils which may not be representative of the materials sampled on this property.

Table B2.6.19: Concentration of 13 Elements in Soil in µg/g at Maple Tree Preschool Inc. #1, 158 John Street, Sudbury																
Map ID	Station	Sample Number	Soil Depth	Sb	As	Ba	Cd	Cr	Co	Cu	Pb	Mo	Ni	Se	V	Zn
Area A grass	5037087	14173	0 - 5	< 0.8	< 5	27	< 0.8	21	6	55	8	< 1.5	75	< 1	21	28
		14174	0 - 5	< 0.8	< 5	30	< 0.8	24	6	67	9	< 1.5	86	< 1	25	27
		14175	5 - 10	< 0.8	< 5	30	< 0.8	26	6	59	11	< 1.5	65	< 1	26	29
		14176	5 - 10	< 0.8	< 5	29	< 0.8	25	7	43	8	< 1.5	54	< 1	25	26
		14177	10 - 20	< 0.8	7	29	< 0.8	28	11	160	27	< 1.5	160	< 1	30	37
		14178	10 - 20	< 0.8	5	24	< 0.8	22	7	91	17	< 1.5	99	< 1	22	26
Area B sand	5037088	14172	0 - 15	< 0.8	< 5	14	< 0.8	17	4	10	3	< 1.5	17	< 1	16	10
Table F (results in bold)				1.0	14	190	1.0	67	19	56	55	2.5	43	1.4	91	150
Table A (results in bold & underlined)				13	20	750	3.0	750	40	225	200	5.0	150	2.0	200	600
< - less than the Method Detection Limit. Al, Ca, Fe, Mg, Mn, and Sr results for this school can be found in Table 4.2.																

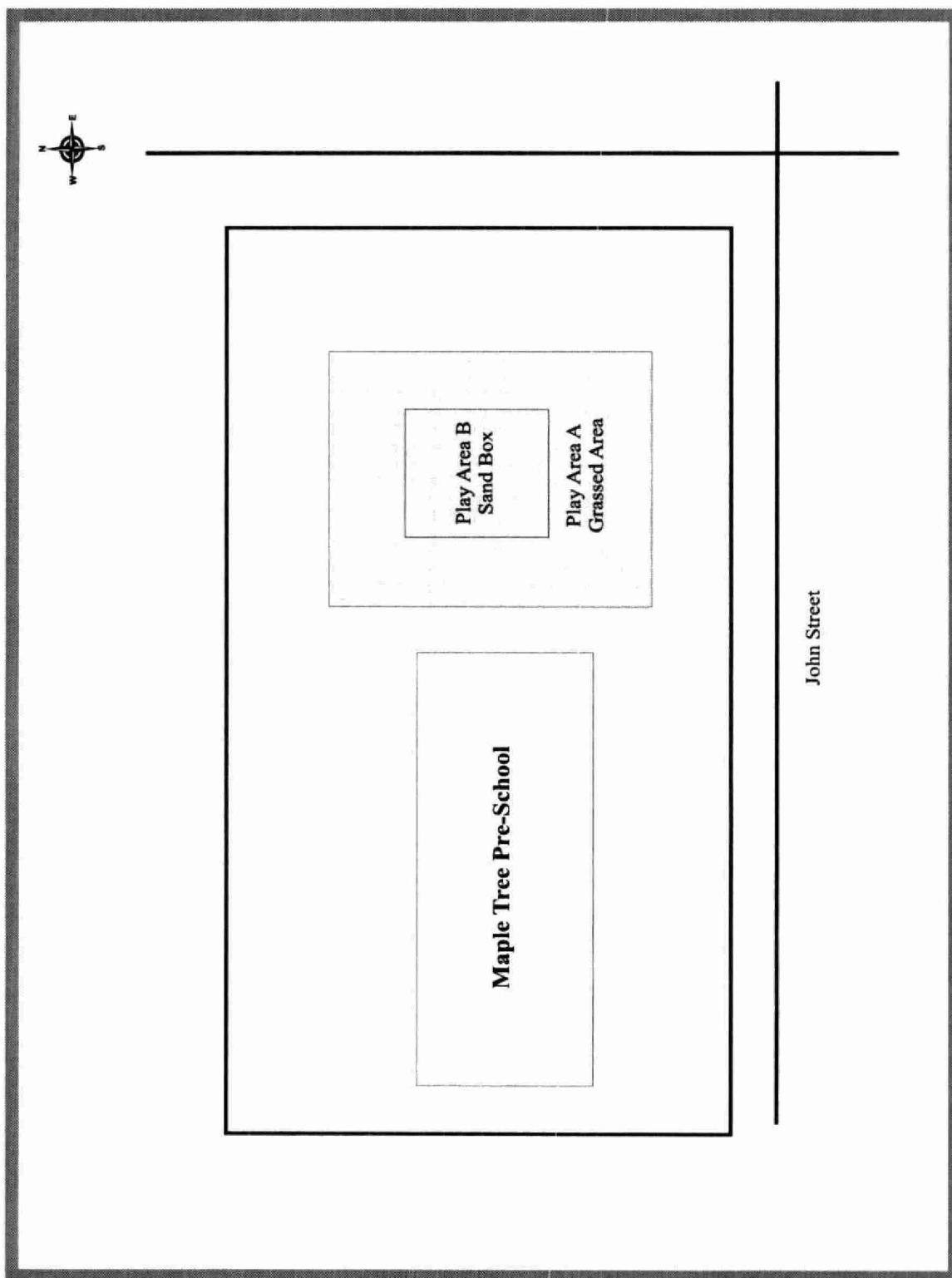


Figure B2.6.19: Maple Tree Preschool #1 Sampling Locations - 2001.

2.6.20 Maple Tree Preschool Inc. #2 at St. Benedict Secondary, 2993 Algonquin Road, Sudbury

Maple Tree Preschool Inc. #2 was sampled on July 4, 2001. Samples were taken from three areas on the daycare property. Area A corresponds to the grassed play area. Due to the compacted nature of the grassed area, or the presence of bedrock at shallow depths, it was only possible to sample the surface soil layer (0-5 cm). Areas B and C correspond to sand samples collected from the southwest and northeast sanded play areas, respectively. Due to the constant mixing and homogenous nature of the sanded areas, samples were collected with hand trowels to represent the 0-15 cm depth. All data were compared with the MOE Table F Ontario Soil Background Criteria and Table A Effects Based Soil Criteria (MOE 1997).

Metal concentrations were not elevated in the sand from either sanded play area. The sand is not likely native to the daycare property and is believed to have been introduced when the play areas were constructed. Thus the sand was not expected to have elevated metal concentrations. None of the samples from this property were found to have metal concentrations above the MOE Table F Ontario Soil Background Criteria. All other metals listed, as well as aluminum (Al), calcium (Ca), iron (Fe), magnesium (Mg), manganese (Mn), and strontium (Sr) which are not listed, were below the MOE Table F Ontario Soil Background Criteria. There were no exceedences of the MOE Table A Effects Based Soil Criteria at this property.

These nickel and copper results are lower than those reported historically. Previous MOE sampling of undisturbed soils approximately 2 km southwest, 1.5 km north, and 1.5 km east of Maple Tree Preschool Inc. #2, Stations 366, 365, and 404, respectively, of the MOE Sudbury 2000 Report for the City of Greater Sudbury (MOE 2001), indicated nickel and copper surface soil concentration ranges of 120 to 190 and 110 to 190 ppm, respectively. Historic MOE sampling in the Sudbury area was of undeveloped surface soils which may not be representative of the materials sampled on this property.

Table B2.6.20: Concentration of 13 Elements in Soil in µg/g at Maple Tree Preschool Inc. #2 at St. Benedict Secondary, 2993 Algonquin Road, Sudbury																
Map ID	Station	Sample Number	Soil Depth	Sb	As	Ba	Cd	Cr	Co	Cu	Pb	Mo	Ni	Se	V	Zn
Area A grass	5037026	14064	0 - 5	< 0.8	< 5	29	< 0.8	29	6	22	6	< 1.5	35	< 1	27	22
		14065	0 - 5	< 0.8	6	34	< 0.8	30	6	27	6	< 1.5	41	< 1	30	24
Area B sand	5037027	14067	0 - 15	< 0.8	< 5	24	< 0.8	32	6	18	3	< 1.5	20	< 1	31	17
Area C sand	5037028	14066	0 - 15	< 0.8	< 5	21	< 0.8	28	6	19	3	< 1.5	22	< 1	28	17
Table F (results in bold)				1.0	14	190	1.0	67	19	56	55	2.5	43	1.4	91	150
Table A (results in bold & underlined)				13	20	750	3.0	750	40	225	200	5.0	150	2.0	200	600
< - less than the Method Detection Limit. Al, Ca, Fe, Mg, Mn, and Sr results for this school can be found in Table 4.2.																

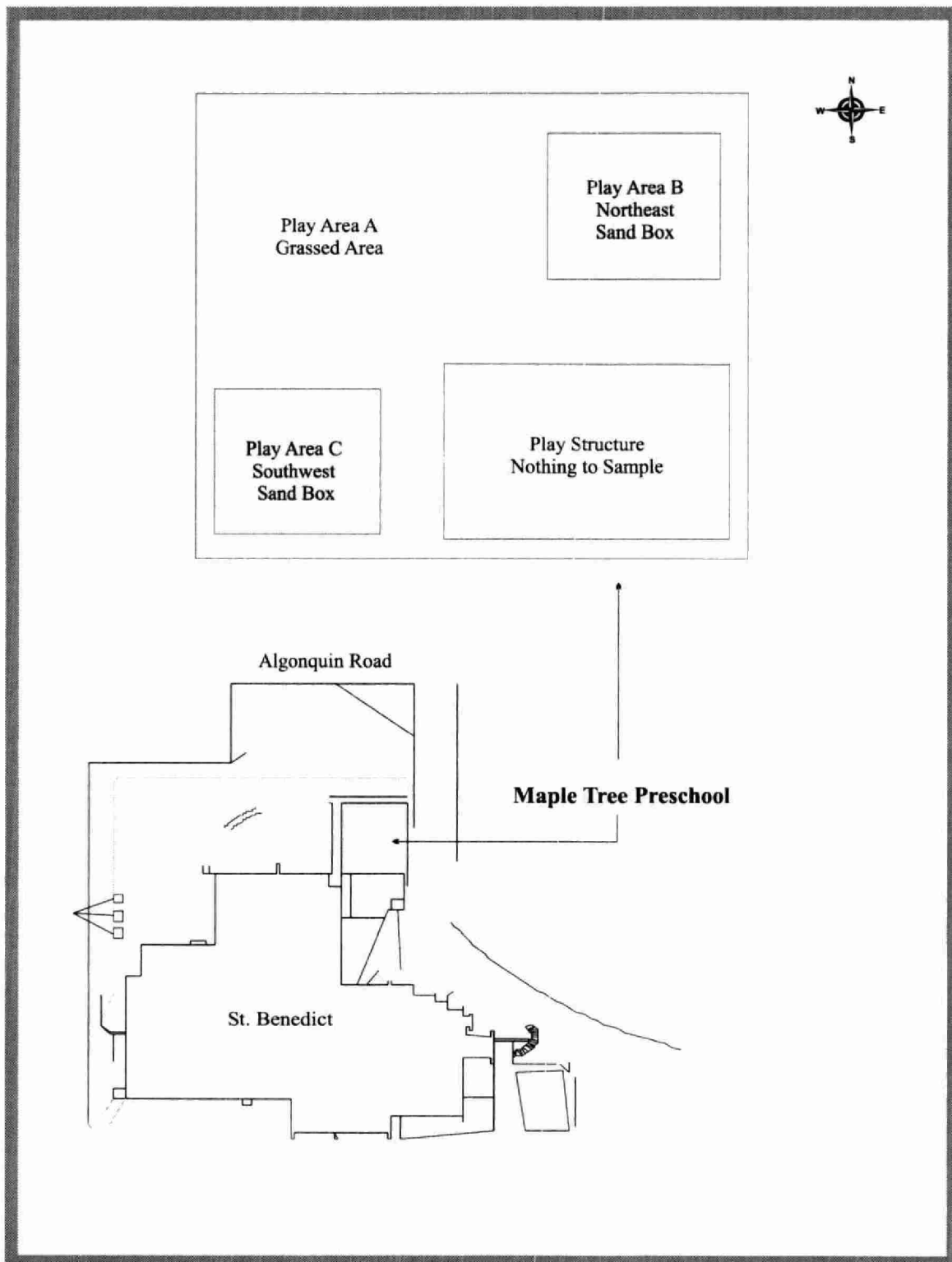


Figure B2.6.20: Maple Tree Preschool #2 Sampling Locations - 2001.

2.6.21 Play and Learn Daycare at Cambrian College, 1400 Barrydowne Road, Sudbury

Play and Learn Daycare was sampled on July 17, 2001. Samples were taken from two areas on the daycare property. Areas A and B correspond to the south and north sanded play areas, respectively. Due to the constant mixing and homogenous nature of the sanded areas, samples were collected with hand trowels to represent the 0-15 cm depth. All data were compared with the MOE Table F Ontario Soil Background Criteria and Table A Effects Based Soil Criteria (MOE 1997).

Metal concentrations were not elevated in the sand from either sanded play area. The sand is not likely native to the daycare property and is believed to have been introduced when the play areas were constructed. Thus the sand was not expected to have elevated metal concentrations. All other metals listed, as well as aluminum (Al), calcium (Ca), iron (Fe), magnesium (Mg), manganese (Mn), and strontium (Sr) which are not listed, were below the MOE Table F Ontario Soil Background Criteria. There were no exceedences of the MOE Table A Effects Based Soil Criteria at this property.

These nickel and copper results are lower than those reported historically. Previous MOE sampling of undisturbed soils approximately 1 km northwest and 0.5 km southeast of Play and Learn Daycare, Stations 6 and 43, respectively, of the MOE Sudbury 2000 Report for the City of Greater Sudbury (MOE 2001), indicated nickel and copper surface soil concentration ranges of 28 to 230 and 33 to 210 ppm, respectively. Historic MOE sampling in the Sudbury area was of undeveloped surface soils which may not be representative of the materials sampled on this property.

Table B2.6.21: Concentration of 13 Elements in Soil in µg/g at Play and Learn Daycare, 1400 Barrydowne Road, Sudbury																
Map ID	Station	Sample Number	Soil Depth	Sb	As	Ba	Cd	Cr	Co	Cu	Pb	Mo	Ni	Se	V	Zn
Area A sand	5037172	14330	0 - 15	< 0.8	5	18	< 0.8	25	6	14	2	< 1.5	21	< 1	29	17
Area B sand	5037173	14332	0 - 15	< 0.8	< 5	22	< 0.8	31	9	29	4	< 1.5	34	< 1	31	23
Table F (results in bold)				1.0	14	190	1.0	67	19	56	55	2.5	43	1.4	91	150
Table A (results in bold & underlined)				13	20	750	3.0	750	40	225	200	5.0	150	2.0	200	600
< - less than the Method Detection Limit. Al, Ca, Fe, Mg, Mn, and Sr results for this school can be found in Table 4.2.																

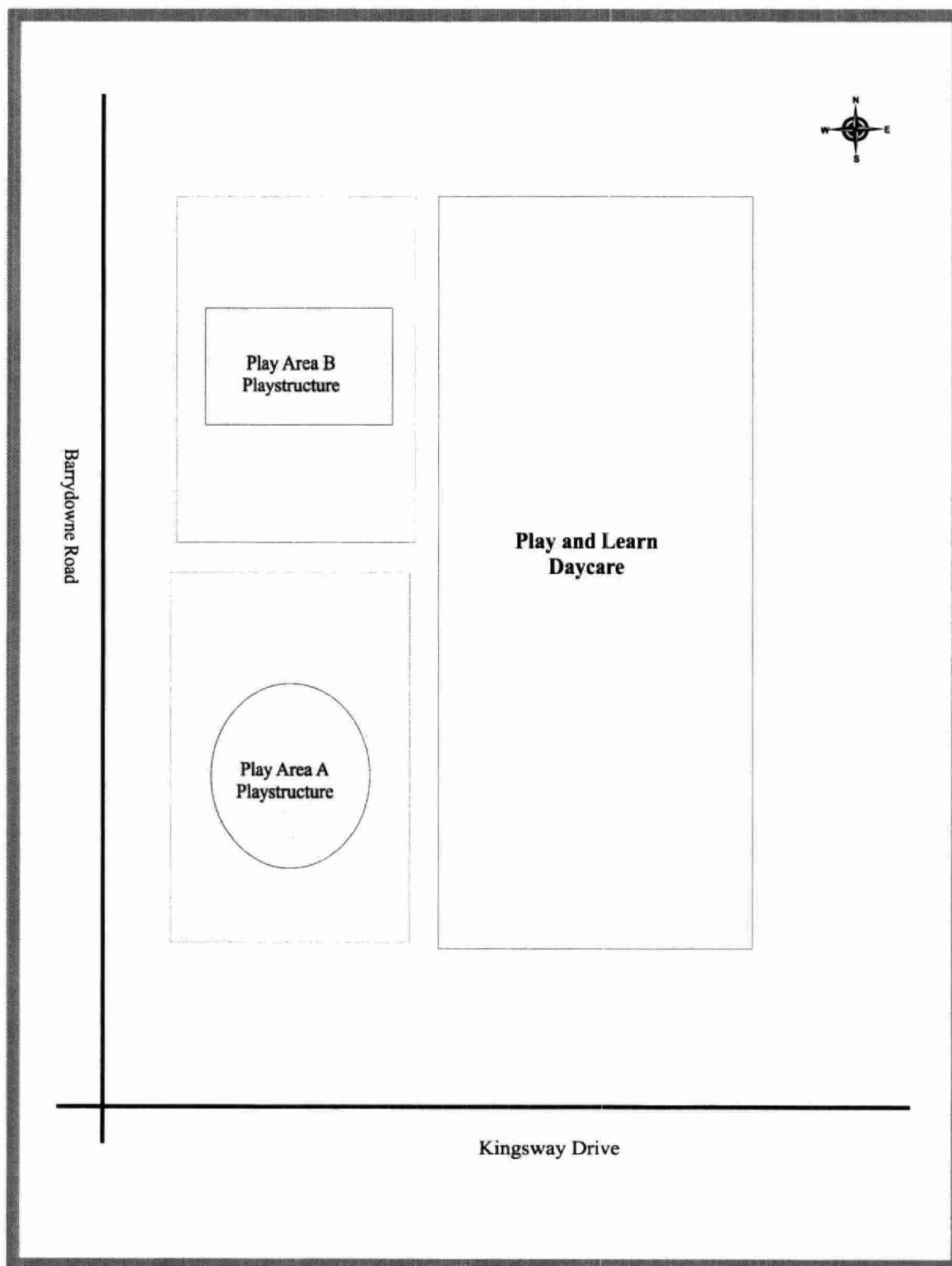


Figure B2.6.21: Play & Learn Daycare Sampling Locations - 2001.

2.6.22 Princess Anne Kids at Princess Anne Public School, 500 Douglas Street, Sudbury

This daycare is operated by Larch Street Kids and is located in the same building as Princess Anne Public School, Rainbow District School Board. See Princess Anne Public School for the discussion, results and map (Section 2.1.29).

2.6.23 R.J. Kids at Robert Jack Public School, 7 Margaret Street, Garson

R.J. Kids, operated by Larch Street Kids and located in Robert Jack Public School, was sampled on July 18, 2001. Samples were taken from two areas on the daycare property. Area A corresponds to the gravel playground. Area B corresponds to sand samples collected from the sand box. Due to the constant mixing and homogenous nature of the sanded area, sand samples were collected with hand trowels to represent the 0-15 cm depth. Hand trowels were also used to collect the gravel samples to represent the 0-5 cm depth. All data were compared with the MOE Table F Ontario Soil Background Criteria and Table A Effects Based Soil Criteria (MOE 1997).

Metal concentrations were not elevated in the sand from the sand box. The sand is not likely native to the daycare property and is believed to have been introduced when the play area was constructed. Thus the sand was not expected to have elevated metal concentrations. None of the samples from this property had concentrations above the MOE Table F Ontario Soil Background Criteria. All other metals listed, as well as aluminum (Al), calcium (Ca), iron (Fe), magnesium (Mg), manganese (Mn), and strontium (Sr) which are not listed, were below the MOE Table F Ontario Soil Background Criteria. There were no exceedences of the MOE Table A Effects Based Soil Criteria at this property.

These nickel and copper results fall within the lower end of the concentration ranges of those reported historically. Previous MOE sampling of undisturbed soils approximately 2 km northwest, 0.5 km southwest, and 1 km west of R. J. Kids Daycare, Stations 412, 40, and 39, respectively, of the MOE Sudbury 2000 Report for the City of Greater Sudbury (MOE 2001), indicated nickel and copper surface soil concentration ranges of 37 to 140 and 24 to 200 ppm, respectively. Historic MOE sampling in the Sudbury area was of undeveloped surface soils which may not be representative of the materials sampled on this property.

Table B2.6.23: Concentration of 13 Elements in Soil in µg/g at RJ Kids at Robert Jack Public School, 7 Margaret Street, Garson																
Map ID	Station	Sample Number	Soil Depth	Sb	As	Ba	Cd	Cr	Co	Cu	Pb	Mo	Ni	Se	V	Zn
Area A gravel	5037275	14428	0 - 5	< 0.8	6	25	< 0.8	23	7	23	4	< 1.5	31	< 1	25	18
Area B sand	5037275	14429	0 - 15	< 0.8	5	18	< 0.8	25	6	15	3	< 1.5	22	< 1	29	17
Table F (results in bold)				1.0	14	190	1.0	67	19	56	55	2.5	43	1.4	91	150
Table A (results in bold & underlined)				13	20	750	3.0	750	40	225	200	5.0	150	2.0	200	600

< - less than the Method Detection Limit.

Al, Ca, Fe, Mg, Mn, and Sr results for this school can be found in Table 4.2.

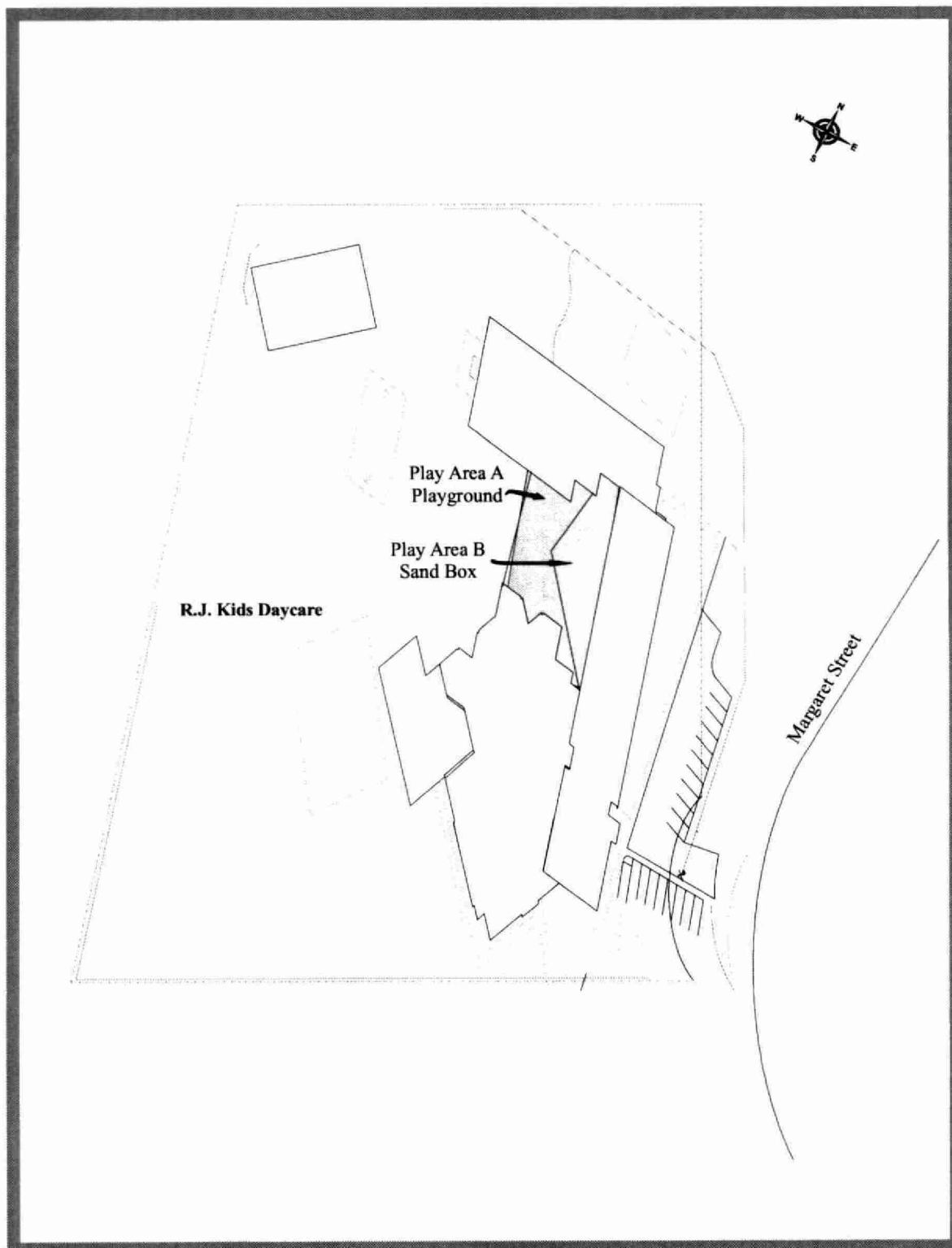


Figure B2.6.23: R. J. Kids Daycare Sampling Locations - 2001.

2.6.24 Services De Garde De Rayside - Balfour #1, 30 Hill Street, Chelmsford

Services de Garde de Rayside-Balfour #1 was sampled on July 19, 2001. Samples were taken from four areas on the daycare property. Areas A, B and C correspond to sand samples collected from the north, west, and south sanded play areas, respectively. Due to the constant mixing and homogenous nature of the sanded areas, samples were collected with hand trowels to represent the 0-15 cm depth. Area D corresponds to the grassed play area along the east fence line. Due to the compacted nature of these grassed areas, or the presence of bedrock at shallow depths, it was only possible to sample the surface soil (0-5 cm). All data were compared with the MOE Table F Ontario Soil Background Criteria and Table A Effects Based Soil Criteria (MOE 1997).

Metal concentrations were not elevated in sand any of the sanded play areas. The sand present is not likely native to the daycare property and is believed to have been introduced when the play areas were constructed. Thus the sand was not expected to have elevated metal concentrations. Nickel (Ni) concentrations were elevated above the MOE Table F Ontario Soil Background Criteria in the surface soil from the grassed play area. The highest nickel concentration found was 66 ppm. All other metals listed, as well as aluminum (Al), calcium (Ca), iron (Fe), magnesium (Mg), manganese (Mn), and strontium (Sr) which are not listed, were below the MOE Table F Ontario Soil Background Criteria. There were no exceedences of the MOE Table A Effects Based Soil Criteria at this property.

These nickel and copper results fall within the lower end of the concentration ranges of those reported historically. Previous MOE sampling of undisturbed soils approximately 3.5 km northwest, 3 km southwest, and 4 km southeast of Services de Garde de Rayside-Balfour #1, Stations 386, 385, and 384, respectively, of the MOE Sudbury 2000 Report for the City of Greater Sudbury (MOE 2001), indicated nickel and copper surface soil concentration ranges of 65 to 170 and 49 to 130 ppm, respectively. Historic MOE sampling in the Sudbury area was of undeveloped surface soils which may not be representative of the materials sampled on this property.

Table B2.6.24: Concentration of 13 Elements in Soil in µg/g at Services De Garde De Rayside - Balfour #1, 30 Hill Street, Chelmsford

Map ID	Station	Sample Number	Soil Depth	Sb	As	Ba	Cd	Cr	Co	Cu	Pb	Mo	Ni	Se	V	Zn
Area A sand	5037379	14514	0 - 15	< 0.8	5	14	< 0.8	22	6	15	4	< 1.5	18	< 1	25	18
Area B sand	5037378	14515	0 - 15	< 0.8	< 5	11	< 0.8	22	5	11	3	< 1.5	17	< 1	22	15
		14516	0 - 15	< 0.8	< 5	16	< 0.8	24	7	18	4	< 1.5	20	< 1	29	21
Area C sand	5037380	14517	0 - 15	< 0.8	< 5	12	< 0.8	25	5	13	3	< 1.5	18	< 1	25	17
Area D grass	5037381	14518	0 - 5	< 0.8	7	32	< 0.8	27	8	48	17	< 1.5	66	< 1	26	30
		14519	0 - 5	< 0.8	5	36	< 0.8	30	7	38	15	< 1.5	58	< 1	29	28
Table F (results in bold)				1.0	14	190	1.0	67	19	56	55	2.5	43	1.4	91	150
Table A (results in bold & underlined)				13	20	750	3.0	750	40	225	200	5.0	150	2.0	200	600
< - less than the Method Detection Limit.				Al, Ca, Fe, Mg, Mn, and Sr results for this school can be found in Table 4.2												

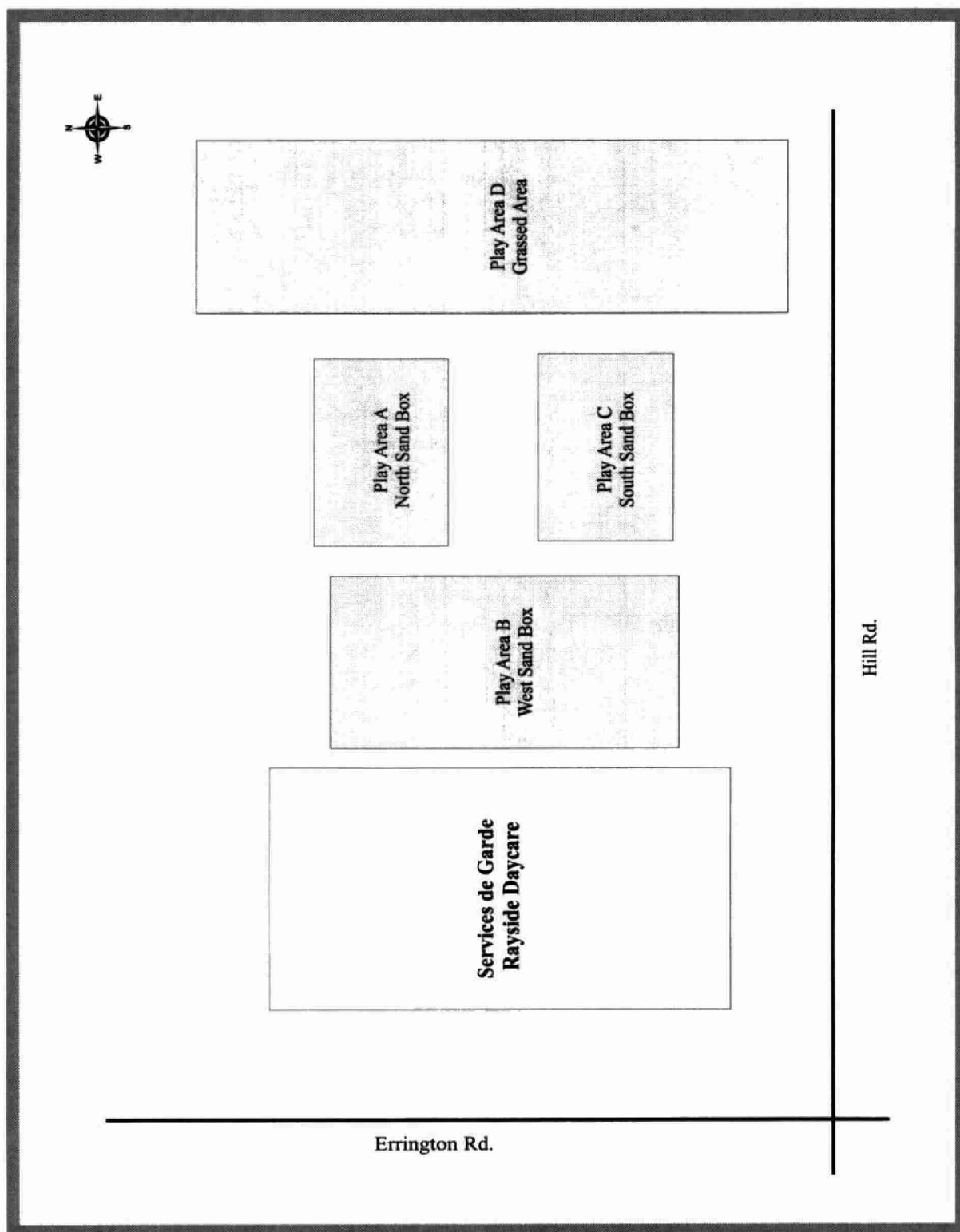


Figure B2.6.24: Services de Garde Rayside - Balfour #1 Sampling Locations - 2001.

2.6.25 Services De Garde De Rayside - Balfour #2, 121 Charlotte Street, Chelmsford

This daycare is located in the same building as Chelmsford Public School, Rainbow District School Board. See Chelmsford Public School for the discussion, results and map (Section 2.1.6).

2.6.26 Shooting Star Daycare, 4120 Elmview Drive, Hanmer

Shooting Star Daycare was sampled on July 20, 2001. Samples were taken from six areas on the daycare property. Areas A to D are sanded play areas that are located immediately east of the daycare building. Area A corresponds to sand samples collected from the southern most sanded areas designated for school aged children. Area B corresponds to sand samples collected from the play area just north of Area A that has been designated for preschool children. Area C corresponds to sand samples collected from the sanded play area just north of Area B that has also been designated for preschool children. Area D corresponds to the northern most sanded area that has been designated for toddler aged children. Area E corresponds to the sanded play area in the southeast corner of the property, just east of Areas A and B. Area F corresponds to soil samples taken from a hill located in the northeast corner of the property. Due to the constant mixing and homogenous nature of the sanded areas, samples were collected with hand trowels to represent the 0-15 cm depth. All data were compared with the MOE Table F Ontario Soil Background Criteria and Table A Effects Based Soil Criteria (MOE 1997).

One sand sample, from Area A, was found to be elevated above the MOE Table F Ontario Soil Background Criteria for nickel. Metal concentrations were not elevated in any other sand or soil sample from this property. The sand present is not likely native to the daycare property and according to a discussion had on site the day of sampling, the sand had been introduced in November 2000 and more sand was added in June or July of 2001. Thus the sand was not expected to have elevated metal concentrations. The highest nickel concentration found was 60 ppm. All other metals listed, as well as aluminum (Al), calcium (Ca), iron (Fe), magnesium (Mg), manganese (Mn), and strontium (Sr) which are not listed, were below the MOE Table F Ontario Soil Background Criteria. There were no exceedences of the MOE Table A Effects Based Soil Criteria at this property.

These nickel and copper results are lower than those reported historically. Previous MOE sampling of undisturbed soils approximately 50 m south, 2 km northeast, and 3.5 km southeast of Shooting Star Daycare, Stations 344, 347, and 349, respectively, of the MOE Sudbury 2000 Report for the City of Greater Sudbury (MOE 2001), indicated nickel and copper surface soil concentration ranges of 66 to 150 and 57 to 110 ppm, respectively. Historic MOE sampling in the Sudbury area was of undeveloped surface soils which may not be representative of the materials sampled on this property.

Table B2.6.26: Concentration of 13 Elements in Soil in µg/g at Shooting Star Daycare, 4120 Elmview Drive, Hanmer																
Map ID	Station	Sample Number	Soil Depth	Sb	As	Ba	Cd	Cr	Co	Cu	Pb	Mo	Ni	Se	V	Zn
Area A sand	5037312	14644	0 - 15	< 0.8	< 5	32	< 0.8	35	11	26	5	< 1.5	60	< 1	33	27
Area B sand	5037313	14645	0 - 15	< 0.8	< 5	22	< 0.8	30	6	16	3	< 1.5	23	< 1	30	18
Area C sand	5037314	14646	0 - 15	< 0.8	< 5	25	< 0.8	32	10	20	4	< 1.5	27	< 1	33	22
Area D sand	5037315	14647	0 - 15	< 0.8	< 5	23	< 0.8	30	7	18	4	< 1.5	26	< 1	31	22
Area E sand	5037316	14648	0 - 15	< 0.8	< 5	20	< 0.8	28	6	14	3	< 1.5	22	< 1	29	16
Area F soil	5037317	14649	0 - 5	< 0.8	< 5	28	< 0.8	28	5	16	6	< 1.5	34	< 1	28	17
		14650	0 - 5	< 0.8	< 5	27	< 0.8	27	4	12	5	< 1.5	28	< 1	27	15
Table F (results in bold)				1.0	14	190	1.0	67	19	56	55	2.5	43	1.4	91	150
Table A (results in bold & underlined)				13	20	750	3.0	750	40	225	200	5.0	150	2.0	200	600
< - less than the Method Detection Limit. Al, Ca, Fe, Mg, Mn, and Sr results for this school can be found in Table 4.2.																

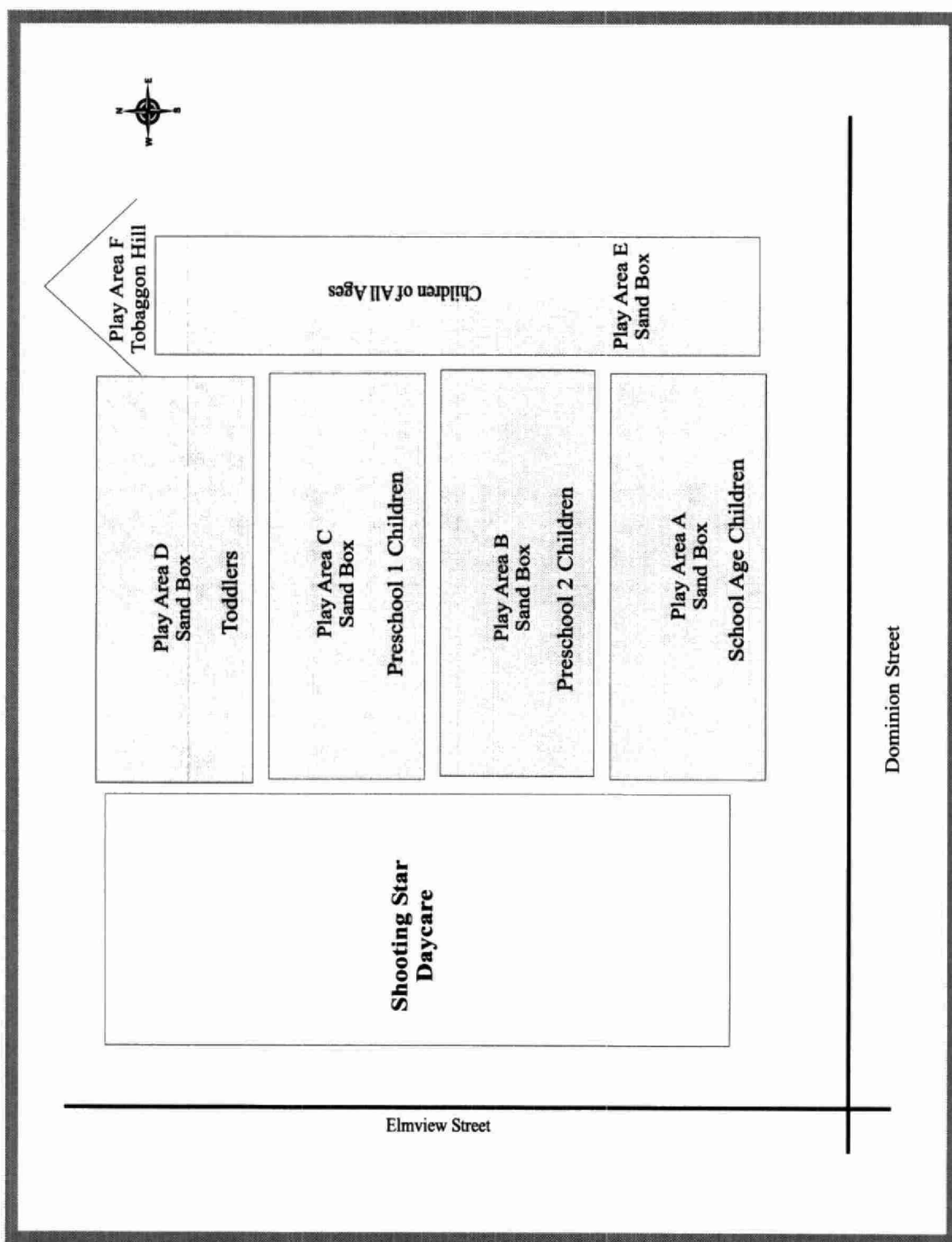


Figure B2.6.26: Shooting Star Daycare Sampling Locations - 2001.

2.6.27 Smiles 'n' Freckles Inc. Daycare, 63 Ridgemont Avenue, Sudbury

Smiles 'n' Freckles Inc. Daycare was sampled on July 17, 2001. Samples were taken from one area on the daycare property. Area A corresponds to sand samples collected from beneath the play structure. Due to the constant mixing and homogenous nature of the sanded areas, samples were collected with hand trowels to represent the 0-15 cm depth. All data were compared with the MOE Table F Ontario Soil Background Criteria and Table A Effects Based Soil Criteria (MOE 1997).

Metal concentrations were not elevated in the sand from beneath the play structure. The sand is not likely native to the daycare property and is believed to have been introduced when the play area was constructed. Thus the sand was not expected to have elevated metal concentrations. All other metals listed, as well as aluminum (Al), calcium (Ca), iron (Fe), magnesium (Mg), manganese (Mn), and strontium (Sr) which are not listed, were below the MOE Table F Ontario Soil Background Criteria. There were no exceedences of the MOE Table A Effects Based Soil Criteria at this property.

These nickel and copper results are much lower than those reported historically. Previous MOE sampling of undisturbed soils approximately 1 km southwest and 1 km north of Smiles 'n' Freckles Inc. Daycare, Stations 78, 79, and 410, respectively, of the MOE Sudbury 2000 Report for the City of Greater Sudbury (MOE 2001), indicated nickel and copper surface soil concentration ranges of 110 to 360 and 110 to 350 ppm, respectively. Historic MOE sampling in the Sudbury area was of undeveloped surface soils which may not be representative of the materials sampled on this property.

Table B2.6.27: Concentration of 13 Elements in Soil in µg/g at Smiles 'n' Freckles Inc. Daycare, 63 Ridgemont Avenue, Sudbury																
Map ID	Station	Sample Number	Soil Depth	Sb	As	Ba	Cd	Cr	Co	Cu	Pb	Mo	Ni	Se	V	Zn
Area A sand	5037150	14363	0 - 15	< 0.8	< 5	21	< 0.8	23	7	18	33	< 1.5	20	< 1	28	17
		14364	0 - 15	< 0.8	< 5	21	< 0.8	25	8	19	3	< 1.5	21	< 1	33	19
Table F (results in bold)				1.0	14	190	1.0	67	19	56	55	2.5	43	1.4	91	150
Table A (results in bold & underlined)				13	20	750	3.0	750	40	225	200	5.0	150	2.0	200	600
< - less than the Method Detection Limit. Al, Ca, Fe, Mg, Mn, and Sr results for this school can be found in Table 4.2																

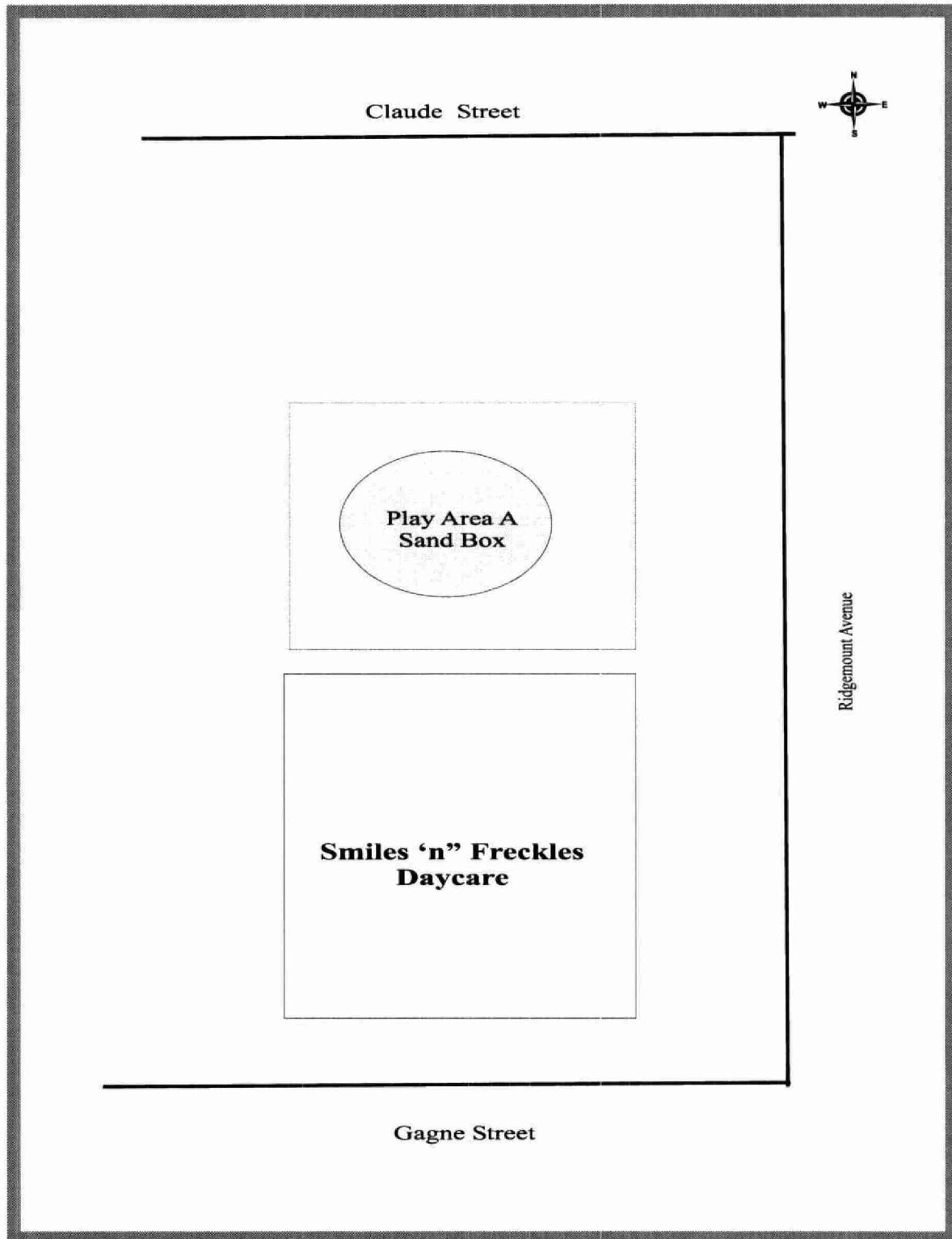


Figure B2.6.27: Smiles 'n' Freckles Daycare Sampling Locations -2001.

2.6.28 St. Albert Child Care Centre, 135 Eyre Street, Sudbury

St. Albert Child Care Centre was sampled on July 6, 2001. Samples were taken from one area on the daycare property. Area A corresponds to the grassed play area on the front lawn of St. Albert Adults Centre. Due to the compacted nature of the grassed area, or the presence of bedrock at shallow depths, it was only possible to sample the surface soil (0-5 cm). All data were compared with the MOE Table F Ontario Soil Background Criteria and Table A Effects Based Soil Criteria (MOE 1997).

None of the samples from this property had metal concentrations above the MOE Table F Ontario Soil Background Criteria. All other metals listed, as well as aluminum (Al), calcium (Ca), iron (Fe), magnesium (Mg), manganese (Mn), and strontium (Sr) which are not listed, were below the MOE Table F Ontario Soil Background Criteria. There were no exceedences of the MOE Table A Effects Based Soil Criteria at this property.

These nickel and copper results are lower than those reported historically. Previous MOE sampling of undisturbed soils approximately 1 km northwest and 0.5 km southwest of St. Albert Child Care Centre, Stations 83 and 378, respectively, of the MOE Sudbury 2000 Report for the City of Greater Sudbury (MOE 2001), indicated nickel and copper surface soil concentration ranges of 90 to 250 and 74 to 210 ppm, respectively. Historic MOE sampling in the Sudbury area was of undeveloped surface soils which may not be representative of the materials sampled on this property.

Table B2.6.28: Concentration of 13 Elements in Soil in µg/g at St. Albert Child Care Centre, 135 Eyre Street, Sudbury																
Map ID	Station	Sample Number	Soil Depth	Sb	As	Ba	Cd	Cr	Co	Cu	Pb	Mo	Ni	Se	V	Zn
Area A grass	5037105	14221	0 - 5	< 0.8	< 5	40	< 0.8	28	5	20	5	< 1.5	29	< 1	28	17
		14222	0 - 5	< 0.8	< 5	45	< 0.8	29	6	20	5	< 1.5	31	< 1	28	18
Table F (results in bold)				1.0	14	190	1.0	67	19	56	55	2.5	43	1.4	91	150
Table A (results in bold & underlined)				13	20	750	3.0	750	40	225	200	5.0	150	2.0	200	600
< - less than the Method Detection Limit. Al, Ca, Fe, Mg, Mn, and Sr results for this school can be found in Table 4.2																

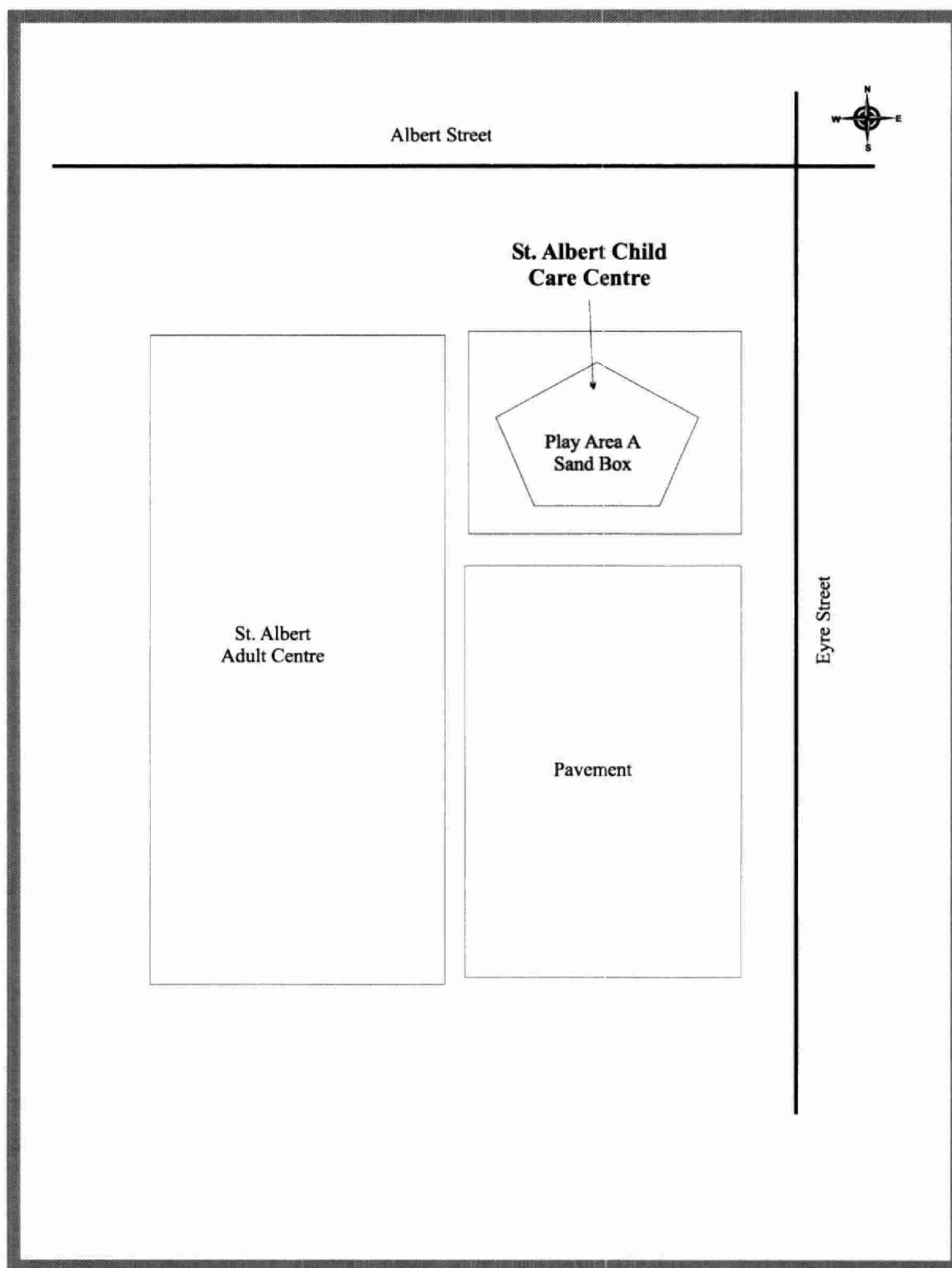


Figure B2.6.28: St. Albert Child Care Centre Sampling Locations - 2001.

2.6.29 Teddy Bear Daycare #1 at First Baptist Church, 2603 Falconbridge Highway

Teddy Bear Daycare #1 at First Baptist Church was sampled on July 18, 2001. Samples were taken from one area on the daycare property. Areas A corresponds to sand samples collected from the sanded play area behind the church. Due to the constant mixing and homogeneous nature of the sanded area, samples were collected with hand trowels to represent the 0-15 cm depth. All data were compared with the MOE Table F Ontario Soil Background Criteria and Table A Effects Based Soil Criteria (MOE 1997).

Metal concentrations were not elevated in the sand from the sanded play area. The sand present is not likely native to the daycare property and is believed to have been introduced when the play area was constructed. Thus the sand was not expected to have elevated metal concentrations. All other metals listed, as well as aluminum (Al), calcium (Ca), iron (Fe), magnesium (Mg), manganese (Mn), and strontium (Sr) which are not listed, were below the MOE Table F Ontario Soil Background Criteria. There were no exceedences of the MOE Table A Effects Based Soil Criteria at this property.

These nickel and copper results fall within the lower end of the concentration ranges of those reported historically. Previous MOE sampling of undisturbed soils approximately 1 km southwest, 1.5 km south, and 1.5 km east of Teddy Bear Daycare, Stations 41, 412, and 40, respectively, of the MOE Sudbury 2000 Report for the City of Greater Sudbury (MOE 2001), indicated nickel and copper surface soil concentration ranges of 37 to 140 and 24 to 193 ppm, respectively. Historic MOE sampling in the Sudbury area was of undeveloped surface soils which may not be representative of the materials sampled on this property.

Table B2.6.29: Concentration of 13 Elements in Soil in µg/g at Teddy Bear Daycare #1 at First Baptist Church, 2603 Falconbridge Highway																
Map ID	Station	Sample Number	Soil Depth	Sb	As	Ba	Cd	Cr	Co	Cu	Pb	Mo	Ni	Se	V	Zn
Area A sand	5037268	14430	0 - 15	< 0.8	6	20	< 0.8	23	6	17	3	< 1.5	22	< 1	30	16
		14431	0 - 15	< 0.8	5	25	< 0.8	26	6	16	3	< 1.5	23	< 1	31	17
Table F (results in bold)				1.0	14	190	1.0	67	19	56	55	2.5	43	1.4	91	150
Table A (results in bold & underlined)				13	20	750	3.0	750	40	225	200	5.0	150	2.0	200	600
< - less than the Method Detection Limit. Al, Ca, Fe, Mg, Mn, and Sr results for this school can be found in Table 4.2.																

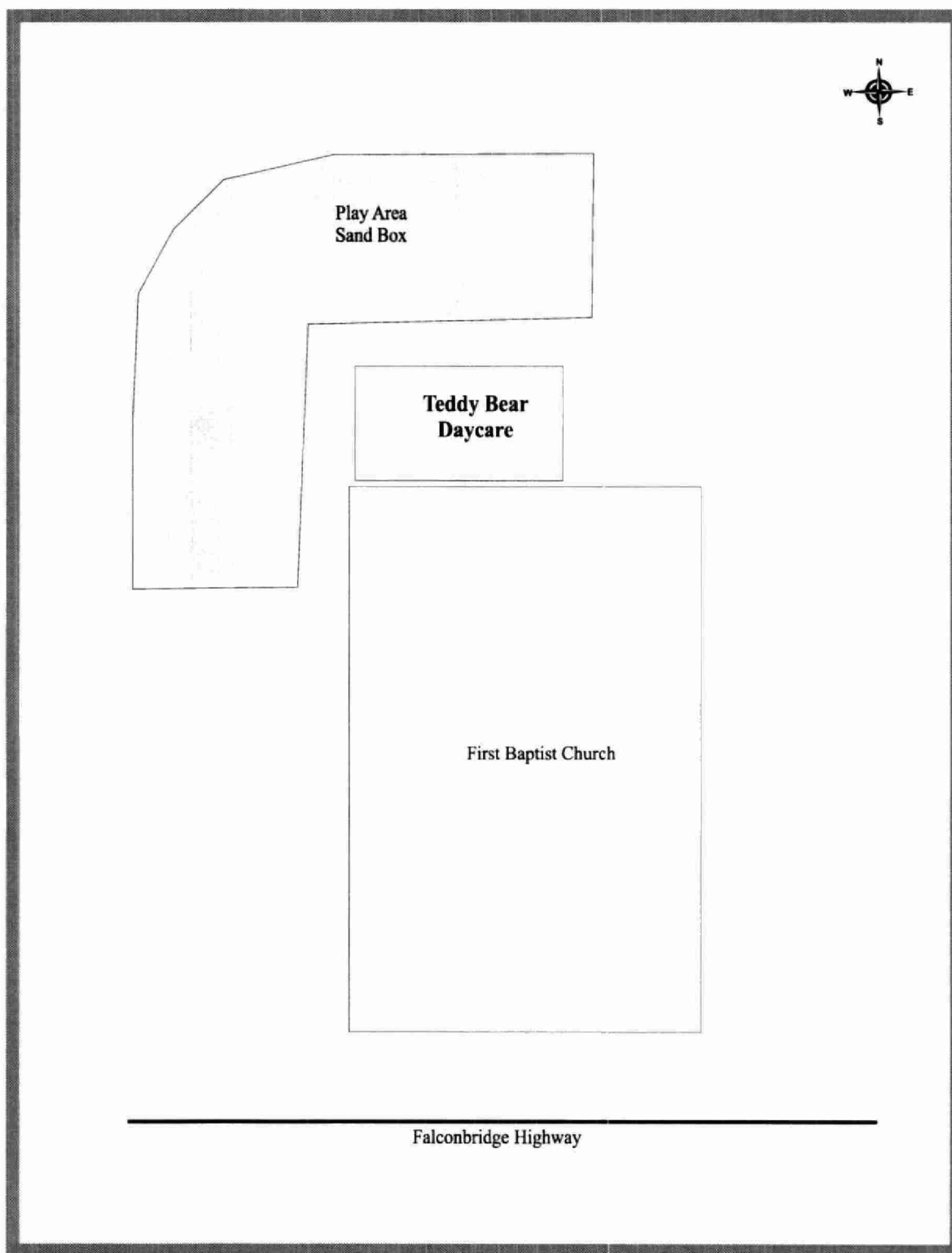


Figure B2.6.29: Teddy Bear Daycare #1 Sampling Locations - 2001.

2.6.30 Teddy Bear Daycare #2 at Falconbridge Recreation Centre, Edison Road, Falconbridge

Teddy Bear Daycare #2, seasonal daycare at Falconbridge Recreation Centre, was sampled on July 22, 2001. Samples were taken from one area on the daycare property. Area A corresponds to sand samples collected from beneath the slide and swings in Centennial Park, beside the tennis courts. Due to the constant mixing and homogeneous nature of the sanded area, samples were collected with hand trowels to represent the 0-15 cm depth. Area A was sampled again on September 18th, 2001 as part of Centennial Park. See Appendix C for re-sampling results. All data were compared with the MOE Table F Ontario Soil Background Criteria and Table A Effects Based Soil Criteria (MOE 1997).

Metal concentrations were not elevated in the sand from beneath the slide and swings. The sand present is not likely native to the daycare property and is believed to have been introduced when the play areas were constructed. Thus the sand was not expected to have elevated metal concentrations. All other metals listed, as well as aluminum (Al), calcium (Ca), iron (Fe), magnesium (Mg), manganese (Mn), and strontium (Sr) which are not listed, were below the MOE Table F Ontario Soil Background Criteria. There were no exceedences of the MOE Table A Effects Based Soil Criteria at this property.

These nickel and copper results are much lower than those reported historically. Previous MOE sampling of undisturbed soils approximately 0.5 km north, 0.5 km northeast, and 0.5 km southwest of Teddy Bear Daycare, Stations 23, 22, and 36, respectively, of the MOE Sudbury 2000 Report for the City of Greater Sudbury (MOE 2001), indicated nickel and copper surface soil concentration ranges of 68 to 1100 and 148 to 1300 ppm, respectively. Historic MOE sampling in the Sudbury area was of undeveloped surface soils which may not be representative of the materials sampled on this property.

Table B2.6.30: Concentration of 13 Elements in Soil in µg/g at Teddy Bear Daycare #2 at Falconbridge Recreation Centre, Edison Road, Falconbridge																
Map ID	Station	Sample Number	Soil Depth	Sb	As	Ba	Cd	Cr	Co	Cu	Pb	Mo	Ni	Se	V	Zn
Area A sand	5037360	14760	0 - 15	< 0.8	< 5	17	< 0.8	20	5	14	2	< 1.5	21	< 1	22	13
		14761	0 - 15	< 0.8	< 5	21	< 0.8	21	5	13	2	< 1.5	19	< 1	25	14
Table F (results in bold)				1.0	14	190	1.0	67	19	56	55	2.5	43	1.4	91	150
Table A (results in bold & underlined)				13	20	750	3.0	750	40	225	200	5.0	150	2.0	200	600
< - less than the Method Detection Limit. Al, Ca, Fe, Mg, Mn, and Sr results for this school can be found in Table 4.2.																

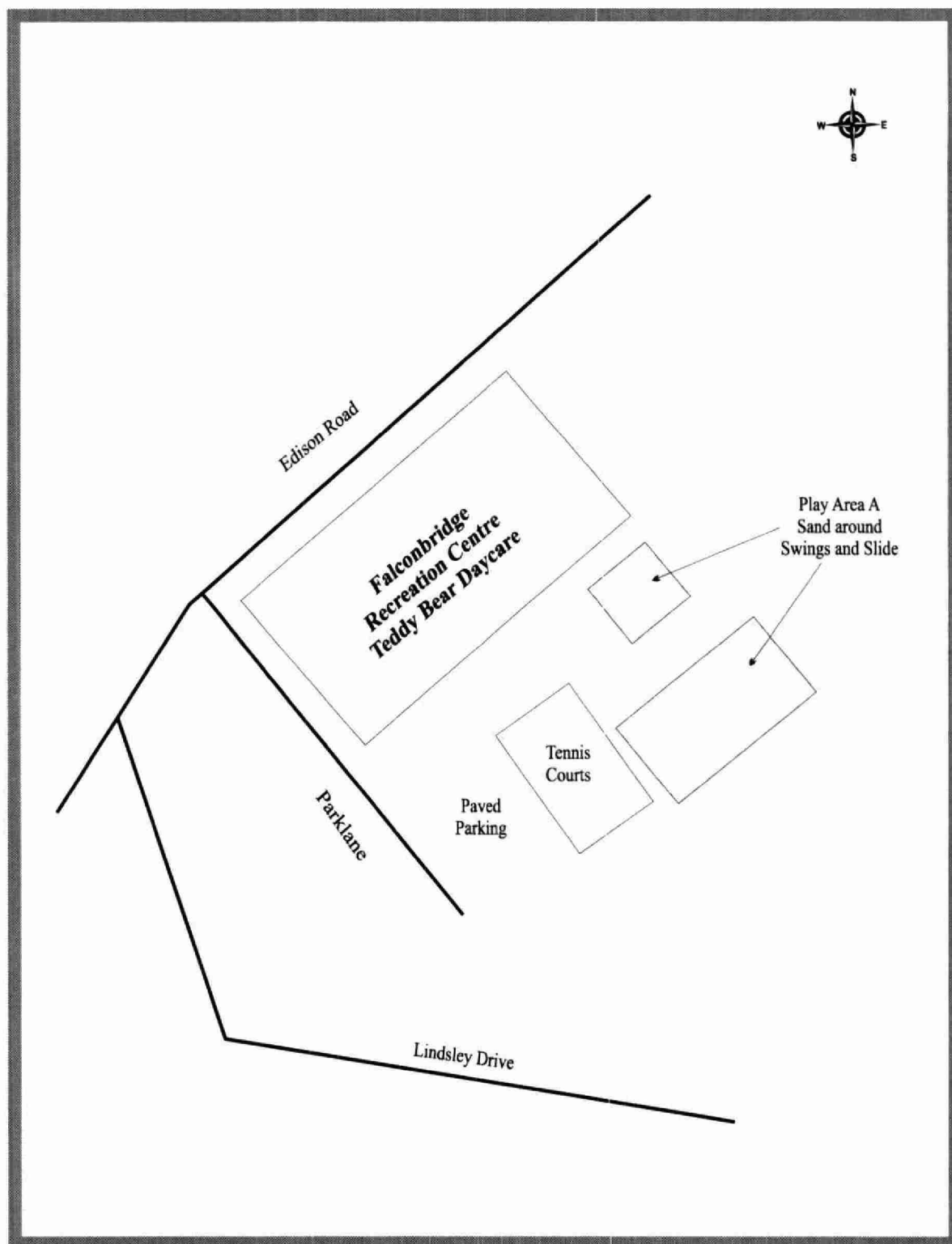


Figure B2.6.30: Teddy Bear Daycare #2 Sampling Locations - 2001.

2.6.31 Teddy Bear Daycare #3 at St. John School, 181 William Street, Garson

This daycare is located in the same building as St. John School, Sudbury Catholic District School Board. See St. John School for the discussion, results and map (Section 2.2.18).

2.6.32 Valley East Co-op-at Raymond Plourde Arena, 1919 Helene Street, Val Caron

Valley East Co-op, at Raymond Plourde Arena, was sampled on July 23, 2001. Samples were taken from eight areas on the daycare property. Area A corresponds the grassed play area between and around the play structures. Due to the compacted nature of the grassed area, it was only possible to sample the surface soil (0-5 cm). Area B corresponds to sand samples collected from beneath the tire hang. Area C corresponds to sand samples collected from beneath the adult swings. Area D corresponds to sand samples collected from beneath the monkey bars. Area E corresponds to sand samples collected from beneath the child swings. Area F corresponds to sand samples collected from beneath the play structure. Area G corresponds to sand samples collected from the landing area of the smaller slide. Area H corresponds to sand samples collected from the landing area of the larger slide. Due to the constant mixing and homogeneous nature of the sanded area, samples were collected with hand trowels to represent the 0-15 cm depth. All data were compared with the MOE Table F Ontario Soil Background Criteria and Table A Effects Based Soil Criteria (MOE 1997).

Metal concentrations were not elevated in any of the sand samples from this property. The sand present is not likely native to the daycare property and is believed to have been introduced when the play areas were constructed. Thus the sand was not expected to have elevated metal concentrations. Nickel (Ni) concentrations were elevated above the MOE Table F Ontario Soil Background Criteria for both samples from the grassed play area. The highest nickel concentration found was 54 ppm. All other metals listed, as well as aluminum (Al), calcium (Ca), iron (Fe), magnesium (Mg), manganese (Mn), and strontium (Sr) which are not listed, were below the MOE Table F Ontario Soil Background Criteria. There were no exceedences of the MOE Table A Effects Based Soil Criteria at this property.

Table B2.6.32: Concentration of 13 Elements in Soil in µg/g at Valley East Co-op-at Raymond Plourde Arena, 1919 Helene Street, Val Caron

Map ID	Station	Sample Number	Soil Depth	Sb	As	Ba	Cd	Cr	Co	Cu	Pb	Mo	Ni	Se	V	Zn
Area A grass	5037296	14788	0 - 5	< 0.8	7	29	< 0.8	24	4	43	10	< 1.5	50	< 1	25	27
		14789	0 - 5	< 0.8	< 5	29	< 0.8	24	4	42	11	< 1.5	54	< 1	26	26
Area B sand	5037297	14790	0 - 15	< 0.8	< 5	22	< 0.8	42	7	28	4	< 1.5	28	< 1	50	25
Area C sand	5037298	14791	0 - 15	< 0.8	< 5	32	< 0.8	46	8	35	5	< 1.5	28	< 1	47	38
Area D sand	5037299	14792	0 - 15	< 0.8	< 5	29	< 0.8	50	11	36	5	< 1.5	29	< 1	59	30
Area E sand	5037300	14793	0 - 15	< 0.8	< 5	43	< 0.8	52	8	48	6	< 1.5	30	< 1	56	36
Area F sand	5037301	14794	0 - 15	< 0.8	< 5	22	< 0.8	45	7	26	4	< 1.5	27	< 1	54	39
Area G sand	5037302	14795	0 - 15	< 0.8	< 5	28	< 0.8	50	8	39	6	< 1.5	35	< 1	56	35
Area H sand	5037303	14796	0 - 15	< 0.8	< 5	29	< 0.8	55	8	33	5	< 1.5	30	< 1	56	32
Table F (results in bold)				1.0	14	190	1.0	67	19	56	55	2.5	43	1.4	91	150
Table A (results in bold & underlined)				13	20	750	3.0	750	40	225	200	5.0	150	2.0	200	600
< - less than the Method Detection Limit. Al, Ca, Fe, Mg, Mn, and Sr results for this school can be found in Table 4.2.																
Note: The play structures and grass area were also sampled separately as part of the Confederation Playground.(see Appendix C)																

These nickel and copper results are lower than those reported historically. Previous MOE sampling of undisturbed soils approximately 1 km west, 2.5 km southeast, and 3.5 km southwest of Valley East Co-op, Stations 15, 340, and 341, respectively, of the MOE Sudbury 2000 Report for the City

of Greater Sudbury (MOE 2001), indicated nickel and copper surface soil concentration ranges of 84 to 210 and 100 to 180 ppm, respectively. Historic MOE sampling in the Sudbury area was of undeveloped surface soils which may not be representative of the materials sampled on this property.

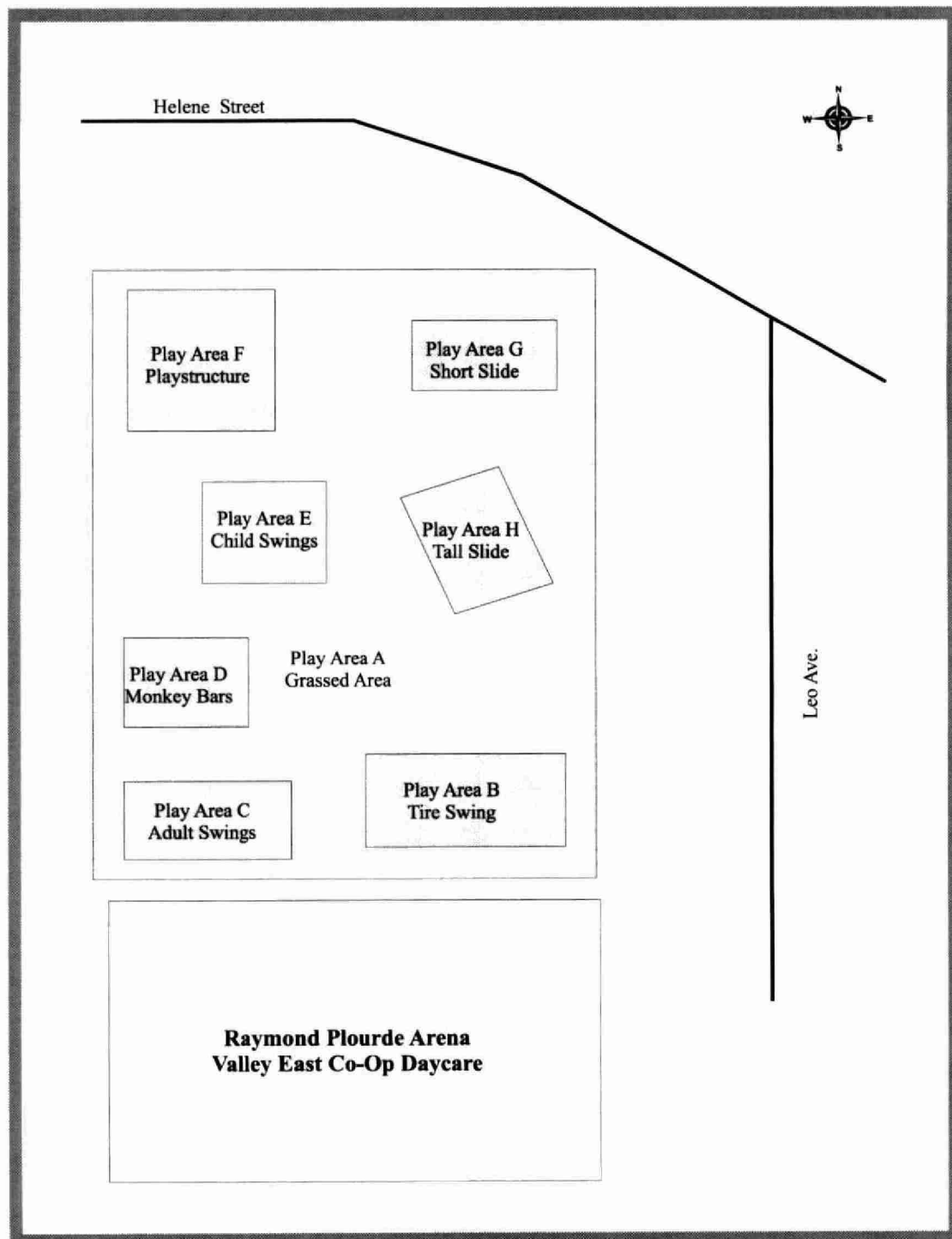


Figure B2.6.32: Valley East Co-Op Daycare Sampling Locations - 2001.

2.6.33 Walden Daycare Centre #1, 500 Niemi Drive, Lively

Walden Daycare Centre #1 was sampled on July 21, 2001. Samples were taken from five areas on the daycare property. Area A corresponds to the grassed play area stretching from the parking lot to the northwest fence facing Niemi Road. Area B corresponds to sand samples collected from the two sand boxes just south of the Area A. Area C corresponds to wood chips collected from around the sand boxes. Area D corresponds to sand samples collected from the sanded play area north of the building. Area E corresponds to the grassed play area surrounding Area D, on the northern edge of the property. Due to the constant mixing and homogeneous nature of the sanded area, samples were collected with hand trowels to represent the 0-15 cm depth. The wood chips were also collected with hand trowels to represent the 0-15 cm layer. Due to the compacted nature of the grassed area, or the presence of bedrock at shallow depths, it was only possible to sample the surface soil (0-5 cm). All data were compared with the MOE Table F Ontario Soil Background Criteria and Table A Effects Based Soil Criteria (MOE 1997).

Metal concentrations were not elevated in the sand or wood chip samples from this property. Neither the sand nor wood chips present are native to the daycare property and both are believed to have been introduced when the play areas were constructed. Thus, neither the sand nor wood chips were expected to have elevated metal concentrations. Nickel (Ni) concentrations were elevated above the MOE Table F Ontario Soil Background Criteria in the surface soils of both grassed play areas. Copper (Cu) was elevated above the MOE Table F Ontario Soil Background Criteria in the surface soil of the north grassed play area only. The highest nickel and copper concentrations found on this property were 110 and 93 ppm, respectively. All other metals listed, as well as aluminum (Al), calcium (Ca), iron (Fe), magnesium (Mg), manganese (Mn), and strontium (Sr) which are not listed, were below the MOE Table F Ontario Soil Background Criteria. There were no exceedences of the MOE Table A Effects Based Soil Criteria at this property.

Table B2.6.33: Concentration of 13 Elements in Soil in µg/g at Walden Daycare Centre #1, 500 Niemi Drive, Lively

Map ID	Station	Sample Number	Soil Depth	Sb	As	Ba	Cd	Cr	Co	Cu	Pb	Mo	Ni	Se	V	Zn
Area A grass	5037238	14711	0 - 5	< 0.8	< 5	37	< 0.8	30	6	38	8	< 1.5	49	< 1	29	27
		14712	0 - 5	< 0.8	< 5	39	< 0.8	31	7	42	9	< 1.5	52	< 1	31	30
Area B sand	5037239	14718	0 - 15	< 0.8	< 5	19	< 0.8	29	8	20	3	< 1.5	21	< 1	30	19
	5037240	14713	0 - 15	< 0.8	< 5	22	< 0.8	28	7	18	3	< 1.5	18	< 1	29	17
Area C mulch	5037241	14714	0 - 15	< 0.8	< 5	20	< 0.8	27	8	34	4	< 1.5	35	< 1	27	22
Area D sand	5037242	14715	0 - 15	< 0.8	< 5	18	< 0.8	28	10	31	5	< 1.5	30	< 1	25	29
Area E grass	5037243	14716	0 - 5	< 0.8	< 5	59	< 0.8	38	17	92	17	< 1.5	110	< 1	34	51
		14717	0 - 5	< 0.8	< 5	67	< 0.8	36	13	93	37	< 1.5	95	< 1	37	58
Table F (results in bold)				1.0	14	190	1.0	67	19	56	55	2.5	43	1.4	91	150
Table A (results in bold & underlined)				13	20	750	3.0	750	40	225	200	5.0	150	2.0	200	600
< - less than the Method Detection Limit.																
Al, Ca, Fe, Mg, Mn, and Sr results for this school can be found in Table 4.2																

These nickel and copper results fall within the lower end of the concentration ranges of those reported historically. Previous MOE sampling of undisturbed soils approximately 1.5 km north, 1.5 km southwest, and 2.5 km east of Walden Daycare Centre, Stations 376, 375, and 100, respectively, of the MOE Sudbury 2000 Report for the City of Greater Sudbury (MOE 2001), indicated nickel and copper surface soil concentration ranges of 34 to 700 and 35 to 568 ppm, respectively. Historic MOE sampling in the Sudbury area was of undeveloped surface soils which may not be representative of the materials sampled on this property.

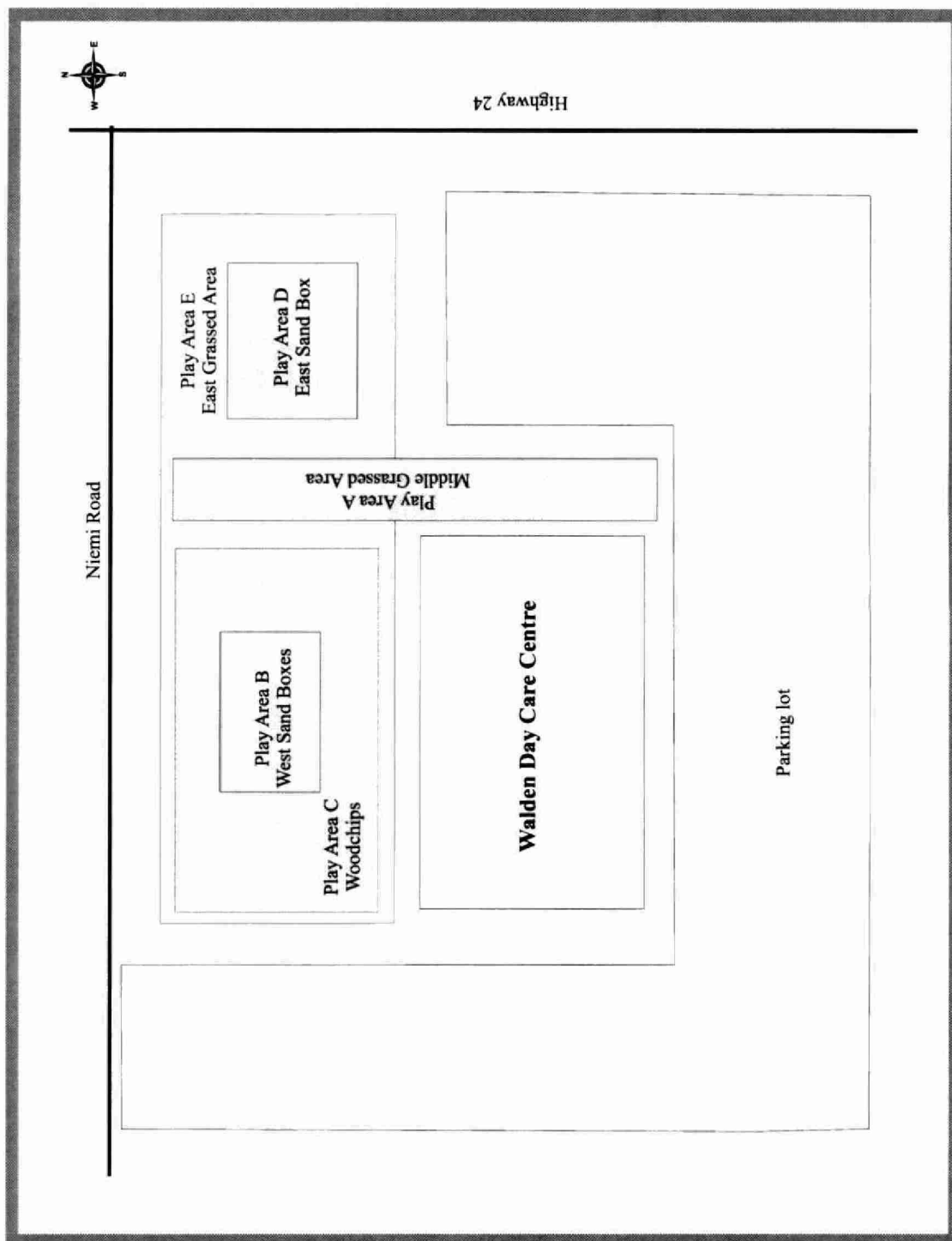


Figure B2.6.33: Walden Daycare Centre #1 Sampling Locations - 2001.

2.6.34 Walden Daycare Centre #2 at St. James School, 280 Anderson Drive, Lively

This daycare is located in the same building as St. James School, Sudbury Catholic District School Board. See St. James School for the discussion, results and map (Section 2.2.17).

2.6.35 Walden Play and Learn, 3 Westview Crescent, Lively

Walden Play and Learn was sampled on July 21, 2001. Samples were taken from three areas on the daycare property. Areas A and B correspond to sand samples collected from beneath the north and south play structures, respectively. Due to the constant mixing and homogeneous nature of the sanded area, samples were collected with hand trowels to represent the 0-15 cm depth. Area C corresponds to the grassed play area west of Area B. Due to the compacted nature of this grassed area, or the presence of bedrock at shallow depths, it was only possible to sample the surface soil (0-5 cm). All data were compared with the MOE Table F Ontario Soil Background Criteria and Table A Effects Based Soil Criteria (MOE 1997).

Metal concentrations were not elevated in either of the sanded play areas. The sand present is not likely native to the daycare property and is believed to have been introduced when the play areas were constructed. Thus the sand was not expected to have elevated metal concentrations. Nickel (Ni) and copper (Cu) concentrations were elevated above the MOE Table F Ontario Soil Background Criteria for samples collected from the grassed play area only. The highest nickel and copper concentrations found were 73 and 61 ppm, respectively. All other metals listed, as well as aluminum (Al), calcium (Ca), iron (Fe), magnesium (Mg), manganese (Mn), and strontium (Sr) which are not listed, were below the MOE Table F Ontario Soil Background Criteria. There were no exceedences of the MOE Table A Effects Based Soil Criteria at this property.

These nickel and copper results fall within the lower end of the concentration ranges of those reported historically. Previous MOE sampling of undisturbed soils approximately 0.2 km southwest and 2 km northeast of Walden Play and Learn, Stations 101 and 100, respectively, of the MOE Sudbury 2000 Report for the City of Greater Sudbury (MOE 2001), indicated nickel and copper surface soil concentration ranges of 34 to 700 ppm and 35 to 568, respectively. Historic MOE sampling in the Sudbury area was of undeveloped surface soils which may not be representative of the materials sampled on this property.

Table B2.6.35: Concentration of 13 Elements in Soil in µg/g at Walden Play and Learn, 3 Westview Crescent, Lively																
Map ID	Station	Sample Number	Soil Depth	Sb	As	Ba	Cd	Cr	Co	Cu	Pb	Mo	Ni	Se	V	Zn
Area A sand	5037236	14709	0 - 15	< 0.8	< 5	32	< 0.8	28	6	53	4	< 1.5	25	< 1	29	27
Area B sand	5037237	14710	0 - 15	< 0.8	< 5	26	< 0.8	30	7	28	6	< 1.5	28	< 1	38	24
Area C grass	5037235	14707	0 - 5	< 0.8	< 5	30	< 0.8	21	6	41	10	< 1.5	73	< 1	22	21
		14708	0 - 5	< 0.8	< 5	45	< 0.8	30	6	61	8	< 1.5	73	< 1	31	31
Table F (results in bold)				1.0	14	190	1.0	67	19	56	55	2.5	43	1.4	91	150
Table A (results in bold &				13	20	750	3.0	750	40	225	200	5.0	150	2.0	200	600
< - less than the Method Detection Limit.																
Al, Ca, Fe, Mg, Mn, and Sr results for this school can be found in Table 4.2.																

Al, Ca, Fe, Mg, Mn, and Sr results for this school can be found in Table 4.2.

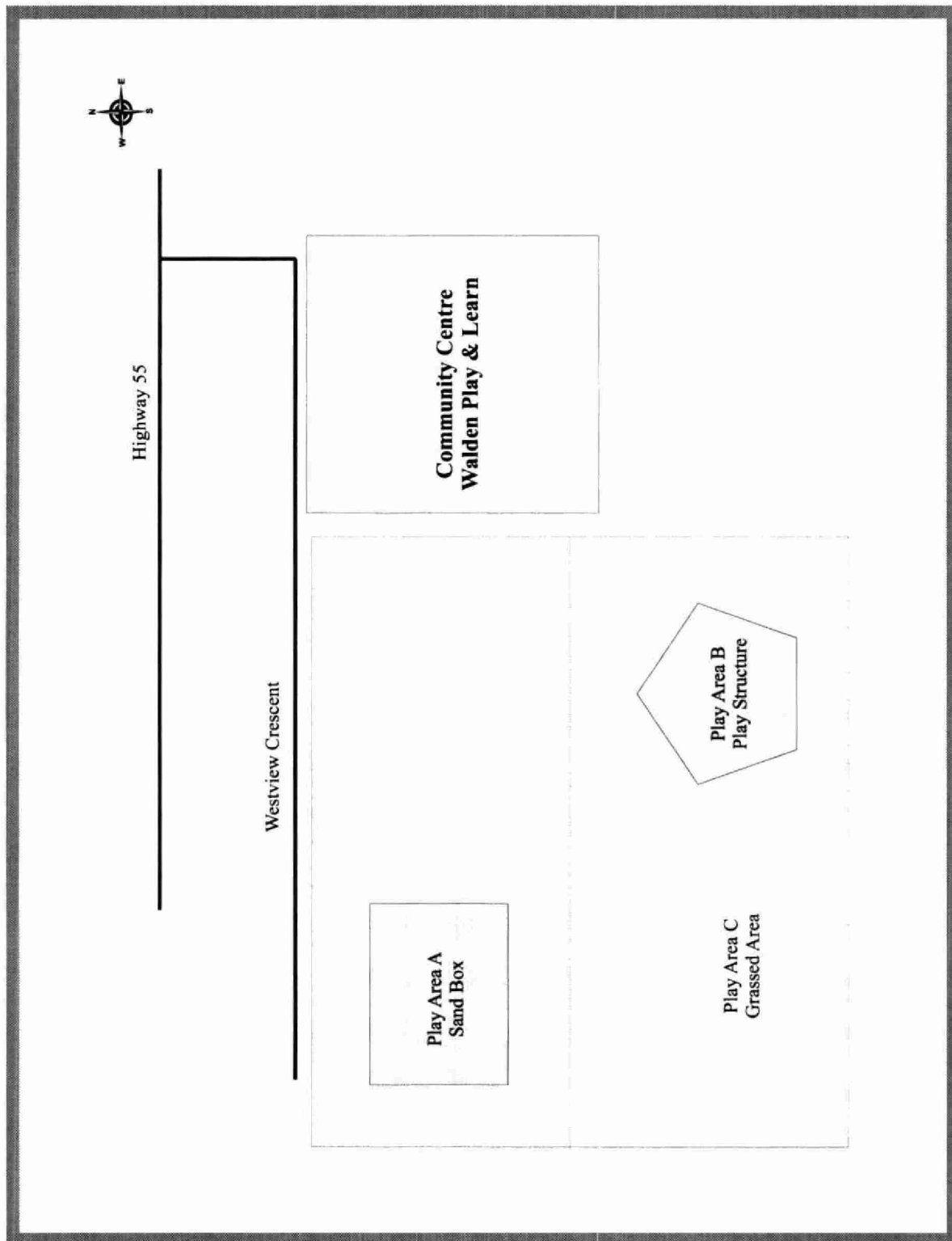


Figure B2.6.35: Walden Play & Learn Sampling Locations - 2001.

3.0 SUMMARY STATISTICS FOR ALL SCHOOLS AND DAYCARES

Table B3.1: Number of schools or daycares in which at least one sample exceed MOE soil criteria.

School Board	Number of Schools	Nickel Exceedences		Copper Exceedences		Cobalt Exceedences		Arsenic Exceedences		Lead Exceedences	
		Table F	Table A	Table F	Table A	Table F	Table A	Table F	Table A	Table F	Table A
Daycares	25	16	2	7	0	1	0	0	1	0	0
Rainbow	40	39	18	11	7	4	2	1	1	3	0
Sudbury Catholic	26	23	5	4	2	4	0	0	0	1	0
Grand Nord	8	5	1	1	0	0	0	0	0	1	0
Scolaire Catholique	31	28	7	6	0	4	0	0	0	0	0
TOTAL:	130	111	33	29	9	13	2	1	2	5	0

Table B3.2: Summary Statistics for All* Sand Samples from All Schools and Daycares in the Sudbury Region

	Al	Sb	As	Ba	Be	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Mo	Ni	Se	Sr	V	Zn
Minimum	3200	0.4	2.5	11	0.3	0.4	1500	11	3	6	7400	2	1900	70	0.8	11	0.5	10	11	9
10th	4460	0.4	2.5	16	0.3	0.4	2160	22	5	12	11000	2	2600	140	0.8	16	0.5	15	24	14
1st quartile	5000	0.4	2.5	19	0.3	0.4	2500	24	6	16	12000	3	3000	150	0.8	20	0.5	18	27	16
Median	5800	0.4	2.5	21	0.3	0.4	2900	27	7	21	14000	3	3700	170	0.8	24	0.5	21	29	19
3rd quartile	6900	0.4	2.5	24	0.3	0.4	3400	30	8	29	16000	4	4200	190	0.8	31	0.5	25	33	24
95th	8540	0.4	6	32	0.3	0.4	4300	39	9	52	19400	7	5040	240	0.8	62	0.5	30	41	34
Maximum	10000	0.8	23	47	0.5	0.8	12000	55	16	170	26000	82	6000	300	4	190	1	46	59	110
Mean	6059	0.4	3	22	0.3	0.4	3073	28	7	25	14255	4	3659	175	0.8	29	0.5	21	31	21
Geometric mean	5906	0.4	3	21	0.3	0.4	2945	27	7	22	13961	3	3566	172	0.8	26	0.5	21	30	20
Sample std. dev.	1392	0.0	2	6	0.0	0.0	1113	6	2	18	2955	7	814	33	0.2	20	0.1	6	7	9
CV (std. dev./mean)	23%	7%	61%	26%	7%	7%	36%	23%	26%	72%	21%	152%	22%	19%	32%	70%	10%	26%	23%	43%
Lower CI for the mean	5861	0.4	2.7	21	0.2	0.4	2915	27	7	23	13835	3	3543	170	0.7	26	0.5	20	30	20
Upper CI for the mean	6257	0.4	3.2	23	0.3	0.4	3232	29	7	28	14676	5	3774	179	0.8	32	0.5	22	32	22
Kurtosis	-0.1	193	87.7	3.7	193	193	33.2	4.3	4.2	23.5	1.7	104	0.0	1.3	175	27.9	94.0	1.2	4.5	50.1
Skewness	0.6	13.9	8.3	1.4	13.9	13.9	4.7	1.6	1.1	4.0	0.8	9.5	0.3	0.6	13.0	4.6	9.7	0.6	1.4	5.5

n = 193

*Note: the standard-deviation and the confidence interval of the mean are valid only in the case of a simple random sampling***Table B3.3: Summary Statistics for Playground Gravel Samples from All Schools and Daycares in the Sudbury Region**

	Al	Sb	As	Ba	Be	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Mo	Ni	Se	Sr	V	Zn
Minimum	4600	0.4	2.5	18	0.3	0.4	2000	20	6	18	11000	3	2800	140	0.8	27	0.5	10	24	17
10th	5900	0.4	2.5	25	0.3	0.4	2600	27	8	42	14000	7	3700	170	0.8	40	0.5	18	28	27
1st quartile	6500	0.4	2.5	28	0.3	0.4	3000	30	9	51	16000	9	4150	180	0.8	56	0.5	23	30	30
Median	7600	0.4	2.5	33	0.3	0.4	3500	33	12	78	18000	11	4500	210	0.8	80	0.5	27	32	36
3rd quartile	8600	0.4	6	39	0.3	0.4	4100	37	16	115	20000	15	5300	230	0.8	120	0.5	29	36	41
95th	11000	0.4	8	48	0.3	0.4	5100	47	28	200	24000	21	6400	300	0.8	190	1	35	45	65
Maximum	20000	1.5	13	120	0.3	0.8	14000	90	33	310	43000	30	14000	390	4	290	2	47	73	110
Mean	7978	0.4	4	35	0.3	0.4	3710	35	14	91	18436	12	4829	214	0.8	97	0.6	26	34	39
Geometric mean	7727	0.4	4	33	0.3	0.4	3526	34	13	78	17957	11	4666	210	0.8	84	0.5	25	34	37
Sample std. dev.	2320	0.1	2	14	0.0	0.0	1575	10	6	55	4742	5	1557	45	0.4	56	0.2	6	8	15
CV (std. dev./mean)	29%	29%	55%	40%	0%	10%	43%	28%	45%	61%	26%	40%	32%	21%	47%	58%	40%	25%	24%	38%
Lower CI for the mean	7518	0.4	4	32	0.3	0.4	3398	33	13	80	17495	11	4520	205	0.7	86	0.5	25	33	36
Upper CI for the mean	8438	0.4	5	37	0.3	0.4	4022	37	15	102	19376	13	5138	223	0.9	108	0.6	27	36	41
Kurtosis	12.5	68.7	1.2	27.4		101.0	28.7	16.0	1.3	2.8	11.7	1.0	22.2	2.5	74.9	1.6	20.7	1.4	10.4	8.1
Skewness	2.8	8.1	1.2	4.7		10.0	4.8	3.3	1.3	1.6	2.7	1.0	4.0	1.4	8.4	1.3	4.2	0.1	2.9	2.5

n = 101

Note: the standard-deviation and the confidence interval of the mean are valid only in the case of a simple random sampling

Table B3.4: Summary Statistics for Baseball Infield Crushed Stone Samples from All Schools and Daycares in the Sudbury Region

	Al	Sb	As	Ba	Be	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Mo	Ni	Se	Sr	V	Zn
Minimum	4100	0.4	2.5	17	0.3	0.4	2000	19	4	13	9500	3	2100	120	0.8	17	0.5	15	22	14
10th	5220	0.4	2.5	25	0.3	0.4	2600	24	6	28	12000	7	3000	150	0.8	38	0.5	18	25	23
1st quartile	6400	0.4	2.5	28	0.3	0.4	2900	27	7	50	14000	8	3400	170	0.8	62	0.5	22	28	27
Median	7900	0.4	2.5	34	0.3	0.4	3950	29	10	68	15000	11	4100	190	0.8	84	0.5	29	29	30
3rd quartile	9700	0.4	6	40	0.3	0.4	7600	34	12	100	17000	16	5400	230	0.8	130	0.5	45	32	40
95th	12000	1.0	8	58	0.3	0.4	12850	40	17	220	21000	23	6100	260	0.8	238	1	84	41	108
Maximum	15000	1.5	9	68	0.3	1.0	15000	42	20	670	24000	32	7600	270	3	370	2	90	68	200
Mean	8269	0.5	4	35	0.3	0.4	5345	30	10	99	15512	13	4400	196	0.8	106	0.6	36	32	41
Geometric mean	7916	0.4	4	34	0.3	0.4	4554	30	9	72	15200	11	4223	193	0.8	87	0.5	32	31	35
Sample std. dev.	2469	0.2	2	11	0.0	0.1	3264	5	4	107	3208	6	1240	36	0.3	74	0.2	19	9	34
CV (std. dev./mean)	30%	48%	52%	31%	0%	22%	62%	17%	36%	109%	21%	51%	29%	19%	38%	71%	45%	54%	28%	84%
Lower CI for the mean	7490	0.4	3	32	0.3	0.4	4316	29	9	65	14500	11	4009	184	0.7	82	0.5	30	29	30
Upper CI for the mean	9048	0.5	5	38	0.3	0.4	6375	32	11	133	16524	15	4791	207	0.9	129	0.6	42	34	52
Kurtosis	0.3	12.8	-0.8	2.2		42.0	1.0	0.0	0.2	18.9	0.9	1.8	-0.5	-0.7	42.0	5.0	27.5	1.6	10.8	12.7
Skewness	0.7	3.6	0.9	1.3		6.5	1.3	0.4	0.6	3.9	0.9	1.3	0.3	0.2	6.5	2.1	5.1	1.4	3.1	3.4

n = 42

*Note: the standard-deviation and the confidence interval of the mean are valid only in the case of a simple random sampling***Table B3.5:** Summary Statistics for All* 0-5 Cm Soil Samples from All Schools and Daycares in the Sudbury Region

	Al	Sb	As	Ba	Be	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Mo	Ni	Se	Sr	V	Zn
Minimum	4100	0.4	2.5	15	0.3	0.4	1700	18	3	11	8500	2	1200	98	0.8	16	0.5	14	16	12
10th	7230	0.4	2.5	28	0.3	0.4	2830	24	5	24	11000	6	2100	140	0.8	34	0.5	22	24	20
1st quartile	8200	0.4	2.5	31	0.3	0.4	3500	26	6	36	12000	9	2400	165	0.8	47	0.5	28	26	24
Median	9200	0.4	2.5	37	0.3	0.4	4700	30	7	51	13000	13	3100	200	0.8	67	0.5	33	29	29
3rd quartile	10750	0.4	6	45	0.3	0.4	6800	35	8	92	15000	21	3900	230	0.8	110	0.5	40	31	37
95th	12000	0.4	8	54	0.3	0.8	11000	45	15	199	18850	84	5485	289	0.8	259	2	49	35	56
Maximum	17000	4.4	37	110	0.5	3.1	33000	67	80	2900	34000	200	9200	440	2	2500	12	170	78	130
Mean	9319	0.4	4	39	0.3	0.5	5690	31	8	99	13856	22	3282	201	0.8	114	0.7	34	29	32
Geometric mean	9158	0.4	4	38	0.3	0.4	4970	31	7	58	13582	15	3095	195	0.8	75	0.6	33	29	30
Sample std. dev.	1698	0.3	4	11	0	0	3660	7	8	256	3077	28	1195	50	0.1	236	1.0	12	5	14
CV (std. dev./mean)	18%	71%	86%	28%	10%	66%	64%	24%	93%	259%	22%	128%	36%	25%	16%	208%	134%	36%	17%	45%
Lower CI for the mean	9133	0.4	4	38	0.2	0.4	5289	31	7	71	13519	19	3151	195	0.8	88	0.6	33	28	31
Upper CI for the mean	9505	0.5	5	40	0.3	0.5	6090	32	9	127	14192	25	3413	206	0.8	139	0.8	36	29	34
Kurtosis	1.1	99.4	38.7	7.3	104.6	48.6	17.4	4.4	53.1	79.5	12.4	11.4	3.3	1.8	45.4	73.4	72.5	45.1	33.9	13.0
Skewness	0.1	9.4	5.3	1.8	10.3	6.6	3.4	1.6	6.6	8.6	2.6	3.2	1.4	0.9	6.8	8.1	7.7	4.6	3.5	2.9

n = 324

Note: the standard-deviation and the confidence interval of the mean are valid only in the case of a simple random sampling

Table B3.6: Summary Statistics for All* 5-10 Cm Soil Samples from All Schools and Daycares in the Sudbury Region

	Al	Sb	As	Ba	Be	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Mo	Ni	Se	Sr	V	Zn
Minimum	5400	0.4	2.5	20	0.3	0.4	1600	18	3	11	7700	2	1100	100	0.8	21	0.5	13	20	15
10th	7300	0.4	2.5	26	0.3	0.4	2100	23	4	19	11000	7	1750	135	0.8	32	0.5	18	24	18
1st quartile	8650	0.4	2.5	29	0.3	0.4	2500	24	5	28	12000	7	1900	145	0.8	41	0.5	24	26	21
Median	9900	0.4	2.5	34	0.3	0.4	3650	27	6	39	13000	9	2450	180	0.8	53	0.5	31	29	25
3rd quartile	11000	0.4	6	40	0.3	0.4	5600	33	7	60	14500	11	3300	215	0.8	71	0.5	38	32	31
95th	13000	0.4	11	54	0.3	0.4	14750	39	11	173	18250	31	5125	280	0.8	213	1	45	35	47
Maximum	15000	1.8	94	97	0.3	2.4	38000	51	46	1300	24000	55	8500	310	0.8	1900	9	52	65	68
Mean	9775	0.4	7	37	0.3	0.5	5063	29	7	89	13315	11	2798	184	0.8	117	0.8	31	29	28
Geometric mean	9597	0.4	4	35	0.3	0.4	4038	28	6	45	13074	10	2599	178	0.8	61	0.6	29	29	26
Sample std. dev.	1836	0.2	15	12	0.0	0.3	4796	6	7	211	2692	8	1199	49	0.0	284	1.3	9	6	10
CV (std. dev./mean)	19%	53%	214%	34%	0%	59%	95%	22%	101%	239%	20%	74%	43%	27%	0%	244%	165%	30%	20%	38%
Lower CI for the mean	9401	0.4	4	34	0.3	0.4	4086	28	6	46	12766	9	2554	174	0.8	59	0.5	29	28	25
Upper CI for the mean	10149	0.5	10	39	0.3	0.5	6039	30	9	132	13863	13	3042	194	0.8	175	1.0	33	30	30
Kurtosis	0.3	21.8	21.9	8.4		35.8	23.4	1.2	18.8	21.1	4.0	12.7	5.5	-0.3		25.2	27.8	-0.7	16.0	3.7
Skewness	0.1	4.8	4.7	2.5		5.8	4.2	1.1	4.4	4.7	1.5	3.4	1.9	0.6		5.0	5.2	0.0	2.8	1.7

n = 96

Note: the standard-deviation and the confidence interval of the mean are valid only in the case of a simple random sampling

Table B3.7: Summary Statistics for All 10-20 Cm Soil Samples from All Schools and Daycares in the Sudbury

	Al	Sb	As	Ba	Be	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Mo	Ni	Se	Sr	V	Zn
Minimum	5200	0.4	2.5	18	0.3	0.4	1400	15	3	4	7000	4	1500	85	0.8	13	0.5	12	18	12
10th	7180	0.4	2.5	24	0.3	0.4	2000	21	4	14	10000	5	1700	120	0.8	23	0.5	16	22	15
1st quartile	8100	0.4	2.5	28	0.3	0.4	2500	23	4	23	11000	6	1900	145	0.8	36	0.5	22	24	19
Median	9200	0.4	2.5	34	0.3	0.4	3100	26	5	31	12000	7	2200	170	0.8	46	0.5	28	27	22
3rd quartile	11000	0.4	5	39	0.3	0.4	4300	28	6	49	14000	9	2900	200	0.8	66	0.5	34	30	26
95th	12000	0.4	17	47	0.3	0.4	8020	34	11	169	15300	18	4670	242	0.8	194	0.6	44	33	36
Maximum	12000	1.1	52	63	0.3	1.1	13000	56	23	540	27000	27	6500	340	0.8	710	4	49	63	45
Mean	9208	0.4	5	34	0.3	0.4	3773	27	6	51	12533	8	2536	172	0.8	70	0.6	28	28	23
Geometric mean	9049	0.4	4	33	0.3	0.4	3350	26	5	34	12264	8	2397	166	0.8	51	0.5	27	27	22
Sample std. dev.	1665	0.1	9	8	0.0	0.1	2186	6	3	72	2931	4	987	47	0.0	93	0.5	9	7	6
CV (std. dev./mean)	18%	28%	164%	24%	0%	20%	58%	24%	52%	142%	24%	52%	39%	28%	0%	133%	84%	33%	25%	28%
Lower CI for the mean	8822	0.4	3	32	0.3	0.4	3267	25	5	34	11854	7	2307	161	0.8	49	0.5	26	26	22
Upper CI for the mean	9594	0.5	8	36	0.3	0.4	4280	28	7	67	13212	9	2765	183	0.8	92	0.7	31	29	24
Kurtosis	-0.5	23.5	16.2	1.8		75.0	6.0	9.0	14.2	29.6	12.2	5.5	5.2	2.4		30.7	37.0	-0.7	16.3	1.2
Skewness	-0.2	4.9	4.1	0.8		8.7	2.3	2.4	3.2	4.9	2.8	2.2	2.2	1.1		5.1	6.0	0.3	3.5	0.9

n = 75

Note: the standard-deviation and the confidence interval of the mean are valid only in the case of a simple random sampling

4.0 COMBINED SCHOOL AND DAYCARE RESULTS - Schools in alphabetical order.**Table B4.1: Concentration of 19 Elements in Soil in µg/g Collected on 105 School Properties in the Sudbury Area in the Summer of 2001**

Map ID	Station	Sample Number	Soil Depth	Al	Sb	As	Ba	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Mo	Ni	Se	Sr	V	Zn
Adamsdale Public School - Rainbow District School Board,181 1st Avenue,Sudbury																						
Area A grass	5037144	14299	0 - 5	11000	< 0.8	< 5	41	< 0.8	5300	41	6	62	13000	49	2600	210	< 1.5	73	< 1	40	29	30
		14300	0 - 5	12000	< 0.8	6	44	< 0.8	6100	43	7	60	15000	34	3500	260	< 1.5	73	< 1	41	33	36
Area B grass	5037145	14301	0 - 5	12000	< 0.8	< 5	48	< 0.8	6900	39	7	44	15000	11	3700	280	1.6	65	< 1	46	34	47
		14302	0 - 5	12000	< 0.8	< 5	47	< 0.8	6600	37	7	42	15000	10	3600	270	< 1.5	60	< 1	43	33	34
Area C gravel	5037146	14303	0 - 5	8100	< 0.8	8	25	< 0.8	2600	29	10	100	15000	19	3000	150	< 1.5	120	< 1	23	29	48
		14304	0 - 5	7800	< 0.8	8	22	< 0.8	2000	28	10	92	15000	19	2300	150	< 1.5	130	< 1	22	28	38
Area D sand	5037147	14305	0 - 15	6500	< 0.8	< 5	23	< 0.8	3100	29	7	17	14000	2	3700	180	< 1.5	19	< 1	26	28	17
		14306	0 - 15	6300	< 0.8	5	22	< 0.8	3100	29	8	18	15000	3	3700	180	< 1.5	20	< 1	24	29	17
Alexander Public School - Rainbow District School Board,39 St. Brendan Street,Sudbury																						
Area A gravel	5037084	14166	0 - 5	7800	< 0.8	< 5	34	< 0.8	4400	47	31	180	22000	14	5300	240	< 1.5	180	< 1	27	35	73
		14167	0 - 5	8300	< 0.8	< 5	40	< 0.8	4400	47	27	160	23000	14	5700	240	< 1.5	170	< 1	25	36	61
Area B gravel	5037085	14168	0 - 5	5700	< 0.8	< 5	29	< 0.8	3200	26	8	77	13000	6	3800	170	< 1.5	80	< 1	28	25	26
		14169	0 - 5	6800	< 0.8	< 5	35	< 0.8	3800	29	11	120	14000	9	4200	200	< 1.5	120	< 1	28	27	40
Area C sand	5037086	14170	0 - 15	6300	< 0.8	< 5	22	< 0.8	2900	30	7	31	15000	3	3800	170	< 1.5	39	< 1	25	30	23
		14171	0 - 15	5800	< 0.8	< 5	18	< 0.8	2300	26	6	24	13000	3	3800	160	< 1.5	29	< 1	20	24	21
Algonquin Road Public School - Rainbow District School Board,2650 Algonquin Road,Sudbury																						
Area A grass	5037016	14002	0 - 5	8200	< 0.8	< 5	31	< 0.8	3200	30	8	51	15000	9	3500	170	< 1.5	63	< 1	30	30	31
		14003	0 - 5	8800	< 0.8	< 5	34	< 0.8	3400	31	9	58	15000	10	3500	180	< 1.5	71	< 1	33	30	32
		14004	5 - 10	9500	< 0.8	< 5	37	< 0.8	3400	30	8	71	14000	15	2700	160	< 1.5	85	< 1	33	30	39
		14005	5 - 10	9900	< 0.8	< 5	40	< 0.8	3500	31	8	74	15000	13	2900	160	< 1.5	80	< 1	36	31	40
		14006	10 - 15	11000	< 0.8	< 5	40	< 0.8	3300	28	6	39	14000	8	2400	150	< 1.5	49	< 1	38	31	24
		14007	10 - 15	9700	< 0.8	< 5	37	< 0.8	2600	27	5	42	14000	7	2100	120	< 1.5	46	< 1	33	31	24
Area B sand	5037017	14008	0 - 15	6800	< 0.8	< 5	22	< 0.8	3200	29	7	23	15000	4	3800	170	< 1.5	24	< 1	28	30	16
		14009	0 - 15	6700	< 0.8	< 5	21	< 0.8	3000	30	7	23	15000	3	4000	180	< 1.5	24	< 1	24	32	16
Area C sand	5037018	14010	0 - 15	6000	< 0.8	< 5	20	< 0.8	2700	28	7	18	14000	3	3400	160	< 1.5	24	< 1	24	33	14
		14011	0 - 15	7000	< 0.8	< 5	24	< 0.8	3000	35	7	22	16000	3	3800	180	< 1.5	27	< 1	28	35	17
Area D gravel	5037019	14012	0 - 5	9700	1.1	< 5	48	< 0.8	3400	35	9	52	14000	8	4800	160	< 1.5	62	< 1	31	30	23
		14013	0 - 5	10000	1.5	< 5	58	< 0.8	4100	41	10	54	15000	7	4800	180	2.7	68	< 1	34	33	29

Table F (results in bold)	NG	1.0	14	190	1.0	NG	67	19	56	NG	55	NG	NG	2.5	43	1.4	NG	91	150
Table A (results in bold and underlined)	NG	13	20	750	12.0	NG	750	40	225	NG	200	NG	NG	5.0	150	10	NG	200	600
< - less than the Method Detection Limit. All beryllium (Be) results were <0.5 µg/g. NG - no guideline.																			

Table B4.1: Concentration of 19 Elements in Soil in µg/g Collected on 105 School Properties in the Sudbury Area in the Summer of 2001

Map ID	Station	Sample Number	Soil Depth	Al	Sb	As	Ba	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Mo	Ni	Se	Sr	V	Zn
Area E grass	5037020	14018	0 - 5	9500	< 0.8	< 5	41	< 0.8	6600	33	7	45	14000	9	3800	260	< 1.5	72	< 1	40	30	31
		14019	0 - 5	10000	< 0.8	< 5	41	< 0.8	6300	35	7	47	14000	9	3800	250	< 1.5	72	< 1	40	31	33
		14020	5 - 10	12000	< 0.8	6	50	< 0.8	6100	46	8	47	17000	10	4500	310	< 1.5	72	< 1	37	37	37
		14021	5 - 10	12000	< 0.8	< 5	45	< 0.8	6300	47	8	41	17000	10	4400	290	< 1.5	66	< 1	41	37	32
Baron Academy Nursery (formerly)-Pr ivate School,1534 Pioneer Rd,Sudbury																						
Area A gravel	5037006	14024	0 - 5	6300	< 0.8	< 5	31	< 0.8	8000	25	4	15	11000	4	4300	190	< 1.5	23	< 1	70	25	14
		14025	0 - 5	8000	< 0.8	< 5	43	< 0.8	10000	31	6	21	14000	6	6100	220	< 1.5	30	< 1	87	29	21
Area B grass	5037007	14026	0 - 5	7400	< 0.8	< 5	27	< 0.8	4400	25	6	58	11000	12	2700	180	< 1.5	71	< 1	29	25	21
		14027	0 - 5	7600	< 0.8	< 5	28	< 0.8	4600	24	6	47	11000	10	2800	180	< 1.5	61	< 1	28	24	21
		14028	5 - 10	8600	< 0.8	< 5	29	< 0.8	3200	27	6	55	12000	8	2300	140	< 1.5	60	< 1	26	26	19
		14029	5 - 10	8900	< 0.8	< 5	30	< 0.8	2800	24	5	48	11000	7	2000	130	< 1.5	57	< 1	24	25	19
C.Ridd Public School - Rainbow District School Board,8 Lincoln Street,Capreol																						
Area A grass	5037354	14571	0 - 5	11000	< 0.8	6	33	< 0.8	2800	25	4	34	13000	10	1900	150	< 1.5	46	< 1	26	26	28
		14572	0 - 5	11000	< 0.8	6	34	< 0.8	2900	26	5	30	13000	10	2000	160	< 1.5	41	< 1	28	26	28
Area B grass	5037355	14573	0 - 5	8800	< 0.8	6	27	< 0.8	2500	31	4	30	11000	32	1900	140	< 1.5	36	< 1	22	24	26
		14574	0 - 5	8600	< 0.8	6	27	< 0.8	2400	36	4	31	11000	49	2000	130	< 1.5	37	< 1	20	23	27
		14575	5 - 10	7600	< 0.8	6	27	< 0.8	2200	24	4	19	11000	9	2000	150	< 1.5	30	< 1	16	22	22
		14576	5 - 10	7000	< 0.8	5	25	< 0.8	2000	24	4	16	10000	5	1900	140	< 1.5	26	< 1	14	21	19
		14577	10 - 20	7300	< 0.8	< 5	25	< 0.8	2700	24	4	13	11000	4	2200	180	< 1.5	21	< 1	22	24	17
		14578	10 - 20	8400	< 0.8	< 5	30	< 0.8	3300	26	4	17	12000	5	2100	200	< 1.5	29	< 1	31	26	22
Area C sand	5037356	14579	0 - 15	5600	< 0.8	< 5	23	< 0.8	2800	25	6	12	12000	2	3100	150	< 1.5	18	< 1	22	25	16
Carl A. Nesbitt Public School - Rainbow District School Board,1241 Bay Street,Sudbury																						
Area A grass	5037184	14346	0 - 5	11000	< 0.8	6	48	< 0.8	10000	32	9	110	14000	18	3500	280	< 1.5	120	< 1	46	30	35
		14347	0 - 5	12000	< 0.8	5	44	< 0.8	7400	32	7	100	14000	12	3100	230	< 1.5	77	< 1	44	31	28
Area B soil	5037185	14348	0 - 5	14000	< 0.8	6	44	< 0.8	6800	35	7	50	17000	11	4800	210	< 1.5	75	< 1	47	34	27
Area C soil	5037186	14349	0 - 5	11000	< 0.8	5	37	< 0.8	7300	34	7	56	14000	11	4000	230	< 1.5	74	< 1	45	32	27
Area D sand	5037187	14350	0 - 15	5600	< 0.8	< 5	23	< 0.8	2100	26	6	14	14000	2	3200	160	< 1.5	22	< 1	20	33	16
		14351	0 - 15	5700	< 0.8	< 5	24	< 0.8	2300	27	6	15	14000	2	3000	160	< 1.5	22	< 1	19	33	17

Table F (results in bold)	NG	1.0	14	190	1.0	NG	67	19	56	NG	55	NG	NG	2.5	43	1.4	NG	91	150
Table A (results in bold and underlined)	NG	13	20	750	12.0	NG	750	40	225	NG	200	NG	NG	5.0	150	10	NG	200	600
< - less than the Method Detection Limit. All beryllium (Be) results were <0.5 µg/g. NG - no guideline.																			

Table B4.1: Concentration of 19 Elements in Soil in $\mu\text{g/g}$ Collected on 105 School Properties in the Sudbury Area in the Summer of 2001

Map ID	Station	Sample Number	Soil Depth	Al	Sb	As	Ba	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Mo	Ni	Se	Sr	V	Zn
Area E sand	5037188	14352	0 - 15	4900	< 0.8	< 5	19	< 0.8	2900	22	5	12	12000	2	2900	140	< 1.5	17	< 1	17	27	16
		14353	0 - 15	5000	< 0.8	< 5	20	< 0.8	3100	25	6	15	14000	3	3100	160	< 1.5	19	< 1	17	31	20
Area F grass	5037189	14357	0 - 5	9200	< 0.8	< 5	41	< 0.8	4300	36	8	87	13000	16	2400	180	< 1.5	99	< 1	33	30	34
		14358	0 - 5	11000	< 0.8	< 5	44	< 0.8	4900	35	8	73	14000	13	2600	180	< 1.5	77	< 1	40	33	31
		14359	5 - 10	12000	< 0.8	6	38	< 0.8	3700	34	7	60	17000	10	2500	180	< 1.5	70	< 1	33	31	27
		14360	5 - 10	9300	< 0.8	< 5	34	< 0.8	2600	30	7	47	13000	7	2400	140	< 1.5	55	< 1	23	31	24
		14361	10 - 20	9300	< 0.8	8	40	< 0.8	2600	33	8	73	13000	11	2200	180	< 1.5	100	< 1	25	29	27
		14362	10 - 20	9200	< 0.8	7	42	< 0.8	3700	34	8	57	12000	9	2500	180	< 1.5	94	< 1	28	30	24
Area G soil	5037190	14355	0 - 5	9200	< 0.8	6	41	< 0.8	4400	32	6	53	13000	8	2800	150	< 1.5	60	< 1	32	32	47
Area H soil	5037191	14354	0 - 5	10000	< 0.8	< 5	46	< 0.8	5500	32	7	51	15000	10	3000	190	< 1.5	73	< 1	38	31	41
Area I sand	5037192	14356	0 - 15	4200	< 0.8	< 5	18	< 0.8	2300	21	5	11	11000	2	2700	140	< 1.5	14	< 1	16	26	13
Chelmsford Public School - Rainbow District School Board, 121 Charlotte Street, Chelmsford																						
Area A grass	5037388	14526	0 - 5	12000	< 0.8	6	43	< 0.8	7100	35	6	32	15000	11	3600	300	< 1.5	47	< 1	45	33	30
		14527	0 - 5	11000	< 0.8	< 5	43	< 0.8	6600	33	6	28	14000	10	3600	260	< 1.5	49	< 1	43	32	29
		14528	5 - 10	12000	< 0.8	< 5	44	< 0.8	6300	36	6	22	16000	10	3600	240	< 1.5	42	< 1	47	35	25
		14529	5 - 10	12000	< 0.8	< 5	43	< 0.8	6400	35	6	28	15000	11	3600	250	< 1.5	47	< 1	44	33	26
		14530	10 - 20	11000	< 0.8	< 5	37	< 0.8	4500	28	5	20	13000	9	2500	180	< 1.5	38	< 1	44	31	21
		14531	10 - 20	11000	< 0.8	< 5	40	< 0.8	5100	30	6	22	14000	9	3100	200	< 1.5	42	< 1	43	32	23
Area B sand	5037389	14523	0 - 15	5100	< 0.8	< 5	18	< 0.8	2900	26	6	15	15000	4	3900	180	< 1.5	16	< 1	18	31	21
Area C sand	5037390	14524	0 - 15	4700	< 0.8	< 5	18	< 0.8	3100	27	7	15	15000	4	3400	170	< 1.5	20	< 1	18	32	23
Area D sand	5037391	14525	0 - 15	5500	< 0.8	< 5	16	< 0.8	3200	25	6	17	16000	4	3900	180	< 1.5	16	< 1	20	33	20

Table F (results in bold)	NG	1.0	14	190	1.0	NG	67	19	56	NG	55	NG	NG	2.5	43	1.4	NG	91	150
Table A (results in bold and underlined)	NG	13	20	750	12.0	NG	750	40	225	NG	200	NG	NG	5.0	150	10	NG	200	600
< - less than the Method Detection Limit. All beryllium (Be) results were <0.5 $\mu\text{g/g}$. NG - no guideline.																			

Table B4.1: Concentration of 19 Elements in Soil in µg/g Collected on 105 School Properties in the Sudbury Area in the Summer of 2001																						
Map ID	Station	Sample Number	Soil Depth	Al	Sb	As	Ba	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Mo	Ni	Se	Sr	V	Zn
Chelmsford Valley District School - Rainbow District School Board, 3594 Highway 144, Chelmsford																						
Area A grass	5037375	14503	0 - 5	9700	< 0.8	< 5	36	< 0.8	4700	34	5	23	12000	46	2300	210	< 1.5	36	< 1	40	28	21
		14504	0 - 5	10000	< 0.8	6	35	< 0.8	4000	36	5	19	13000	55	2300	170	< 1.5	32	< 1	36	28	21
		14505	5 - 10	11000	< 0.8	< 5	37	< 0.8	5300	30	5	16	13000	8	2400	190	< 1.5	30	< 1	39	30	20
		14506	5 - 10	11000	< 0.8	5	39	< 0.8	4400	33	7	23	15000	15	2800	190	< 1.5	38	< 1	39	31	25
		14507	10 - 20	9900	< 0.8	< 5	36	< 0.8	4300	30	6	27	14000	17	2500	190	< 1.5	43	< 1	34	29	23
Area B grass	5037376	14508	0 - 5	8300	< 0.8	6	32	< 0.8	5500	24	5	38	10000	14	2400	160	< 1.5	54	< 1	39	26	22
		14509	0 - 5	7800	< 0.8	< 5	30	< 0.8	5300	22	5	37	10000	14	2600	160	< 1.5	55	< 1	30	24	21
		14510	5 - 10	8800	< 0.8	< 5	33	< 0.8	4500	25	5	18	11000	7	2400	170	< 1.5	33	< 1	38	27	18
		14511	5 - 10	9000	< 0.8	5	34	< 0.8	5800	26	5	22	12000	9	2500	180	< 1.5	39	< 1	40	27	19
		14512	10 - 20	9000	< 0.8	< 5	35	< 0.8	5400	27	4	17	11000	7	2400	170	< 1.5	35	< 1	47	26	18
Area C soil	5037377	14513	0 - 5	9200	< 0.8	< 5	37	< 0.8	11000	29	6	17	14000	6	5600	230	< 1.5	27	< 1	56	28	22
Churchill Public School - Rainbow District School Board, 1722 Fielding Street, Sudbury																						
Area A grass	5037166	14448	0 - 5	8900	< 0.8	6	39	< 0.8	7200	30	8	100	13000	18	3200	220	< 1.5	120	1	34	27	28
		14449	0 - 5	9600	< 0.8	< 5	44	0.8	7300	36	9	130	14000	28	3400	290	< 1.5	140	1	42	29	32
Area B soil	5037167	14450	0 - 5	7900	< 0.8	< 5	40	< 0.8	3000	41	13	100	18000	14	4700	260	< 1.5	120	< 1	26	31	42
Area C soil	5037168	14451	0 - 5	5900	< 0.8	< 5	26	< 0.8	13000	25	8	52	13000	7	8300	180	< 1.5	59	< 1	32	26	23
Area D sand	5037169	14452	0 - 15	4500	< 0.8	< 5	18	< 0.8	2000	22	5	12	11000	2	2600	140	< 1.5	18	< 1	18	23	14
Area E grass	5037170	14453	0 - 5	8200	< 0.8	8	40	< 0.8	3300	38	42	300	24000	34	4300	270	< 1.5	420	1	28	32	69
		14454	0 - 5	8200	< 0.8	6	44	< 0.8	3400	34	34	220	22000	21	4200	220	< 1.5	320	1	28	33	54
Area F soil	5037171	14455	0 - 5	8500	< 0.8	7	40	< 0.8	2900	34	14	110	18000	17	4400	220	< 1.5	120	1	28	32	75
College Notre Dame - Le Conseil Scolaire Catholique du Nouvel - Ontario, 100 Be Levis, Sudbury																						
Area A grass	5037135	14244	0 - 5	9600	< 0.8	6	36	< 0.8	3300	25	5	27	11000	8	2100	150	< 1.5	38	< 1	32	28	20
		14245	0 - 5	10000	< 0.8	5	33	< 0.8	3800	25	4	26	12000	8	2100	150	< 1.5	39	< 1	37	29	21

Table F (results in bold)	NG	1.0	14	190	1.0	NG	67	19	56	NG	55	NG	NG	2.5	43	1.4	NG	91	150
Table A (results in bold and underlined)	NG	13	20	750	12.0	NG	750	40	225	NG	200	NG	NG	5.0	150	10	NG	200	600
< - less than the Method Detection Limit. All beryllium (Be) results were <0.5 µg/g. NG - no guideline.																			

Table B4.1: Concentration of 19 Elements in Soil in µg/g Collected on 105 School Properties in the Sudbury Area in the Summer of 2001																						
Map ID	Station	Sample Number	Soil Depth	Al	Sb	As	Ba	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Mo	Ni	Se	Sr	V	Zn
Confederation Secondary School - Rainbow District School Board, 1918 Main Street West, Val Caron																						
Area A grass	5037294	14797	0 - 5	8100	< 0.8	< 5	35	< 0.8	15000	57	5	40	9400	170	2900	130	< 1.5	54	< 1	37	22	23
		14798	0 - 5	7400	< 0.8	< 5	38	< 0.8	33000	36	5	52	8600	77	4500	150	< 1.5	74	< 1	46	20	26
Area B soil	5037295	14799	0 - 5	9400	< 0.8	< 5	27	< 0.8	4200	26	3	26	9900	21	1600	130	< 1.5	38	< 1	34	26	17
Copper Cliff Public School - Rainbow District School Board, 50 School Street, Copper Cliff																						
Area A grass	5037254	14670	0 - 5	9100	< 0.8	<u>32</u>	82	3.1	27000	48	<u>80</u>	<u>2900</u>	30000	100	4400	250	1.6	<u>2500</u>	<u>12</u>	40	28	110
		14671	0 - 5	11000	< 0.8	<u>37</u>	76	2.6	21000	54	<u>80</u>	<u>2500</u>	34000	90	4700	230	< 1.5	<u>2500</u>	8	39	33	110
		14672	5 - 10	14000	1.5	<u>65</u>	83	1.1	17000	39	<u>38</u>	<u>1100</u>	20000	34	3400	210	< 1.5	<u>1600</u>	4	41	31	51
		14673	5 - 10	15000	1.6	<u>77</u>	97	1.4	17000	45	<u>46</u>	<u>1300</u>	24000	41	3700	270	< 1.5	<u>1900</u>	6	44	34	68
		14674	10 - 20	11000	1	<u>35</u>	63	< 0.8	4300	28	11	<u>190</u>	14000	7	2400	150	< 1.5	<u>260</u>	1	29	28	30
		14675	10 - 20	9800	1.1	<u>44</u>	58	< 0.8	4800	27	14	<u>260</u>	13000	11	2500	170	< 1.5	<u>370</u>	1	29	27	27
Area B sand	5037255	14676	0 - 15	8200	< 0.8	< 5	28	< 0.8	3900	35	9	47	18000	4	4600	220	< 1.5	43	< 1	29	37	24
		14677	0 - 15	7700	< 0.8	< 5	26	< 0.8	3400	35	9	36	18000	4	4700	220	< 1.5	34	< 1	24	36	23
	5037256	14678	0 - 15	7500	< 0.8	< 5	26	< 0.8	3200	33	8	43	17000	4	4500	210	< 1.5	38	< 1	23	33	22
		14679	0 - 15	7300	< 0.8	< 5	22	< 0.8	3100	32	8	27	17000	3	4700	210	< 1.5	28	< 1	21	32	21
	5037257	14680	0 - 15	7100	< 0.8	< 5	25	< 0.8	3200	34	8	39	17000	4	4500	210	< 1.5	34	< 1	21	36	23
		14681	0 - 15	7800	< 0.8	< 5	24	< 0.8	3500	33	8	26	17000	3	4600	220	< 1.5	24	< 1	26	34	22
Area C sand	5037258	14682	0 - 15	7800	< 0.8	< 5	27	< 0.8	3700	35	8	34	18000	4	4600	220	< 1.5	27	< 1	26	36	21
		14683	0 - 15	8200	< 0.8	< 5	27	< 0.8	3800	32	9	29	17000	4	4600	220	< 1.5	30	< 1	29	33	21
	5037259	14684	0 - 15	8000	< 0.8	< 5	26	< 0.8	3600	34	9	32	17000	3	4700	220	< 1.5	29	< 1	27	34	21
		14685	0 - 15	8100	< 0.8	< 5	27	< 0.8	3700	34	9	34	18000	3	4600	210	< 1.5	33	< 1	28	34	21
Area D grass	5037260	14686	0 - 5	10000	< 0.8	<u>24</u>	37	3.1	11000	24	<u>54</u>	<u>2000</u>	26000	96	5500	130	< 1.5	<u>1700</u>	7	27	16	49
		14687	0 - 5	11000	< 0.8	<u>28</u>	32	2.6	12000	20	<u>45</u>	<u>1600</u>	23000	51	4100	98	< 1.5	<u>1500</u>	5	20	16	39
		14688	5 - 10	14000	1.4	<u>66</u>	81	1.6	8800	33	<u>39</u>	<u>980</u>	19000	33	3300	200	< 1.5	<u>1100</u>	7	43	34	57
		14689	5 - 10	13000	1.8	<u>94</u>	76	2.4	9100	38	<u>42</u>	<u>940</u>	19000	55	3300	190	< 1.5	<u>1100</u>	9	42	33	67
		14690	10 - 20	9100	< 0.8	<u>36</u>	36	< 0.8	3300	23	15	<u>190</u>	12000	11	2100	130	< 1.5	<u>250</u>	3	27	26	26
		14691	10 - 20	10000	0.9	<u>52</u>	42	1.1	6800	15	23	<u>540</u>	16000	19	2700	170	< 1.5	<u>710</u>	4	33	22	19
Area E grass	5037261	14692	0 - 5	7400	< 0.8	6	85	< 0.8	7000	30	11	<u>250</u>	13000	11	5000	170	< 1.5	<u>250</u>	1	57	27	26
		14693	0 - 5	8500	< 0.8	6	110	< 0.8	7000	32	11	<u>270</u>	13000	12	4800	190	< 1.5	<u>260</u>	1	60	29	27

Table F (results in bold)	NG	1.0	14	190	1.0	NG	67	19	56	NG	55	NG	NG	2.5	43	1.4	NG	91	150
Table A (results in bold and underlined)	NG	13	20	750	12.0	NG	750	40	225	NG	200	NG	NG	5.0	150	10	NG	200	600
< - less than the Method Detection Limit. All beryllium (Be) results were <0.5 µg/g. NG - no guideline.																			

Table B4.1: Concentration of 19 Elements in Soil in $\mu\text{g/g}$ Collected on 105 School Properties in the Sudbury Area in the Summer of 2001

Map ID	Station	Sample Number	Soil Depth	Al	Sb	As	Ba	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Mo	Ni	Se	Sr	V	Zn
Corpus Christi -Sudbury Catholic District School Board,811 Robinson Drive,Sudbury																						
Area A gravel	5037039	14086	0 - 5	11000	<0.8	< 5	40	<0.8	13000	34	7	50	15000	10	6100	250	< 1.5	74	< 1	45	31	34
		14087	0 - 5	12000	<0.8	< 5	42	<0.8	13000	35	7	48	15000	11	6100	260	< 1.5	71	< 1	48	32	37
Area B gravel	5037040	14088	0 - 5	12000	<0.8	< 5	43	<0.8	14000	36	7	49	16000	11	6500	270	< 1.5	71	< 1	47	34	40
		14089	0 - 5	11000	<0.8	< 5	41	<0.8	13000	35	7	46	15000	10	6200	260	< 1.5	67	< 1	44	31	32
Cyril Varney Public School -Rainbow District School Board,1545 Gary Street,Sudbury																						
Area A grass	5037220	14367	0 - 5	7700	<0.8	7	41	<0.8	4400	28	6	46	11000	11	2700	220	< 1.5	66	< 1	30	26	27
		14368	0 - 5	8800	<0.8	7	37	<0.8	4100	29	6	38	13000	10	2800	220	< 1.5	60	< 1	23	26	24
		14369	5 - 10	5800	<0.8	< 5	23	<0.8	2400	22	5	22	9800	5	2300	140	< 1.5	35	< 1	18	21	15
		14370	5 - 10	11000	<0.8	7	39	<0.8	5800	34	7	25	15000	9	3400	230	< 1.5	45	< 1	38	32	22
		14380	10 - 20	5600	<0.8	< 5	21	<0.8	2400	28	11	92	14000	12	3800	170	< 1.5	87	< 1	17	27	28
Area B soil	5037221	14371	0 - 5	5700	<0.8	< 5	23	<0.8	3200	28	8	26	14000	4	3500	170	< 1.5	28	< 1	22	31	20
Area C soil	5037222	14372	0 - 5	7900	<0.8	6	39	<0.8	4100	29	7	77	12000	25	2600	160	< 1.5	78	< 1	22	25	24
Area D soil	5037223	14373	0 - 5	8000	<0.8	5	43	1	6600	35	11	160	13000	54	3000	210	< 1.5	160	2	28	24	36
		14374	0 - 5	8800	<0.8	< 5	32	<0.8	4700	33	6	51	13000	29	2700	190	< 1.5	67	< 1	26	27	23
Area E sand	5037224	14375	0 - 15	8600	<0.8	< 5	17	<0.8	5600	22	7	35	13000	82	2700	190	< 1.5	80	< 1	26	13	13
		14376	0 - 15	8300	<0.8	< 5	15	<0.8	4400	11	4	9	9100	9	2600	70	< 1.5	27	< 1	21	11	9
Area F grass	5037225	14377	0 - 5	8400	<0.8	< 5	32	<0.8	4200	24	4	26	10000	12	2400	150	< 1.5	35	< 1	33	24	18
		14378	0 - 5	8500	<0.8	5	31	<0.8	3700	27	6	39	13000	12	2400	180	< 1.5	53	< 1	23	26	21
Area G sand	5037226	14379	0 - 15	7000	<0.8	5	30	<0.8	2600	21	6	39	11000	6	1900	140	< 1.5	51	< 1	18	23	18
E.P. Pavillon del'avenir,Conseil Scolaire du District de Grand Nord de L'Ontario,370 Cote Avenue,Chelmsford																						
This school is located in the same building as Chelmsford V.D.C.S, Rainbow District School Board. See that Chelmsford Valley District School above for the results.																						
E.S.C. Ibritage,323 2 nd Avenue -Le Conseil Scolaire Catholique du Nouvel Ontario,Sudbury																						
Area A grass	5037141	14307	0 - 5	11000	<0.8	5	47	<0.8	5900	42	9	100	15000	42	3200	220	< 1.5	120	< 1	40	31	34
		14308	0 - 5	12000	<0.8	7	50	<0.8	6300	43	9	76	16000	24	3600	250	< 1.5	100	< 1	43	34	33
Area B soil	5037142	14309	0 - 5	11000	<0.8	5	45	<0.8	7300	33	6	39	14000	10	3700	230	< 1.5	52	< 1	46	31	25
Area C soil	5037143	14310	0 - 5	12000	<0.8	6	44	<0.8	5800	34	6	29	14000	9	3000	210	< 1.5	43	< 1	38	30	29

Table F (results in bold)	NG	1.0	14	190	1.0	NG	67	19	56	NG	55	NG	NG	2.5	43	1.4	NG	91	150
Table A (results in bold and underlined)	NG	13	20	750	12.0	NG	750	40	225	NG	200	NG	NG	5.0	150	10	NG	200	600
< - less than the Method Detection Limit. All beryllium (Be) results were <0.5 $\mu\text{g/g}$. NG - no guideline.																			

Table B4.1: Concentration of 19 Elements in Soil in µg/g Collected on 105 School Properties in the Sudbury Area in the Summer of 2001																						
Map ID	Station	Sample Number	Soil Depth	Al	Sb	As	Ba	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Mo	Ni	Se	Sr	V	Zn
E.S.C. Champlain -Le Conseil Scolaire Catholique du Nouvel - Ontario ,61 Brookside Drive,Chelmsford																						
Area A grass	5037382	14536	0 - 5	9600	< 0.8	< 5	29	< 0.8	4000	25	5	32	12000	9	2200	160	< 1.5	41	< 1	37	27	21
		14537	0 - 5	9200	< 0.8	< 5	30	< 0.8	3700	24	5	33	11000	10	2200	160	< 1.5	44	< 1	33	26	22
Area B soil	5037383	14538	0 - 5	8700	< 0.8	< 5	46	< 0.8	14000	29	7	24	15000	6	8200	230	< 1.5	32	< 1	76	30	25
Area C sand	5037384	14539	0 - 15	7100	< 0.8	< 5	22	< 0.8	4100	30	7	27	18000	8	4500	220	< 1.5	20	< 1	28	40	26
E.S.C. Ibrizon-Le Conseil Scolaire Catholique du Nouvel - Ontario ,1650 Valleyview Drive,Val Caron																						
Area A grass	5037279	14818	0 - 5	12000	< 0.8	< 5	47	< 0.8	7600	33	6	35	14000	9	3200	250	< 1.5	52	< 1	46	32	30
		14819	0 - 5	12000	< 0.8	< 5	47	< 0.8	7500	33	6	35	15000	9	3200	270	< 1.5	53	< 1	46	32	31
		14820	5 - 10	12000	< 0.8	< 5	48	< 0.8	8500	33	6	33	14000	9	3300	260	< 1.5	51	< 1	48	32	30
		14821	5 - 10	12000	< 0.8	< 5	49	< 0.8	8400	33	6	34	14000	9	3300	280	< 1.5	51	< 1	45	32	32
		14822	10 - 20	12000	< 0.8	< 5	50	< 0.8	8300	34	6	33	14000	9	3200	280	< 1.5	52	< 1	49	32	36
		14823	10 - 20	12000	< 0.8	< 5	47	< 0.8	7900	33	6	31	15000	8	3400	270	< 1.5	46	< 1	47	33	32
Area B soil	5037280	14824	0 - 5	5400	< 0.8	< 5	29	< 0.8	11000	19	5	20	11000	3	4500	220	< 1.5	30	< 1	33	23	16
		14825	0 - 5	5100	< 0.8	< 5	27	< 0.8	11000	20	5	17	11000	2	4500	170	< 1.5	19	< 1	31	22	13
Ecole Leon M -Le Conseil Scolaire Catholique du Nouvel - Ontario ,1311 Be Gemmell,Sudbury																						
Area A gravel	5037181	14456	0 - 5	8000	< 0.8	< 5	36	< 0.8	2600	34	14	120	19000	18	4300	190	< 1.5	130	1	26	31	33
		14457	0 - 5	7100	< 0.8	< 5	30	< 0.8	2400	32	13	110	17000	16	3900	180	< 1.5	120	< 1	22	29	30
Area B sand	5037182	14458	0 - 15	3900	< 0.8	< 5	20	< 0.8	3200	22	5	16	11000	3	2600	130	< 1.5	20	< 1	17	23	21
Area C sand	5037183	14459	0 - 15	3700	< 0.8	< 5	15	< 0.8	1500	19	4	11	9200	2	2100	110	< 1.5	13	< 1	15	18	11
Ecole St. Pierre (formerly) -Le Conseil Scolaire Catholique du Nouvel - Ontario , 102 Be H,Whapitae																						
Area A gravel	5037267	14748	0 - 5	11000	< 0.8	6	48	< 0.8	4100	40	11	73	19000	13	4800	230	< 1.5	73	< 1	35	36	33
		14749	0 - 5	8200	< 0.8	5	33	< 0.8	3600	36	10	58	18000	10	4500	210	< 1.5	60	< 1	27	34	29
Ecole St. Ami (formerly) -Le Conseil Scolaire Catholique du Nouvel - Ontario ,95 Be Estelle,Sudbury																						
Area A gravel	5037149	14295	0 - 5	10000	< 0.8	7	41	< 0.8	3800	36	13	72	19000	12	5100	280	< 1.5	79	< 1	31	35	31
		14296	0 - 5	9900	< 0.8	6	40	< 0.8	3700	41	16	98	21000	14	5900	290	< 1.5	100	< 1	29	38	37

Table F (results in bold)	NG	1.0	14	190	1.0	NG	67	19	56	NG	55	NG	NG	2.5	43	1.4	NG	91	150
Table A (results in bold and underlined)	NG	13	20	750	12.0	NG	750	40	225	NG	200	NG	NG	5.0	150	10	NG	200	600
< - less than the Method Detection Limit. All beryllium (Be) results were <0.5 µg/g. NG - no guideline.																			

Table B4.1: Concentration of 19 Elements in Soil in $\mu\text{g/g}$ Collected on 105 School Properties in the Sudbury Area in the Summer of 2001

Map ID	Station	Sample Number	Soil Depth	Al	Sb	As	Ba	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Mo	Ni	Se	Sr	V	Zn
Ecole Ste. Agnes (Association for Community Living) -Le Conseil Scolarie Catholique du Novel -Ontario,80 Be Landry,Azilda																						
Area A grass	5037371	14496	0 - 5	9700	< 0.8	8	40	< 0.8	4000	36	9	110	16000	21	3500	260	< 1.5	130	< 1	34	32	42
		14497	0 - 5	10000	< 0.8	8	43	< 0.8	4500	38	11	120	16000	23	3700	290	< 1.5	150	< 1	38	33	47
		14498	5 - 10	11000	< 0.8	7	43	< 0.8	4300	38	9	64	16000	14	3800	280	< 1.5	100	< 1	36	32	41
		14499	5 - 10	8900	< 0.8	5	32	< 0.8	3700	33	6	39	14000	7	3200	230	< 1.5	70	< 1	32	30	31
Area B gravel	5037372	14485	0 - 5	8200	< 0.8	5	27	< 0.8	2700	39	11	81	20000	20	5700	230	< 1.5	89	1	18	38	37
		14486	0 - 5	8000	< 0.8	5	24	< 0.8	3500	33	10	77	20000	20	5300	230	< 1.5	85	1	26	39	33
Ernie Checkeris Public School -Rainbow Distri ct School Board,1570 Ag incourt Avenue,Sudbury																						
Area A grass	5037208	14762	0 - 5	9500	< 0.8	5	43	< 0.8	4800	29	8	120	12000	31	2600	160	< 1.5	160	< 1	35	28	33
		14763	0 - 5	9900	< 0.8	6	43	< 0.8	6500	29	7	130	12000	27	3700	160	< 1.5	150	< 1	42	29	37
		14764	5 - 10	11000	< 0.8	< 5	36	< 0.8	2900	26	5	56	13000	7	2300	140	< 1.5	70	< 1	29	30	34
		14765	5 - 10	8600	< 0.8	< 5	33	< 0.8	2800	20	5	67	10000	7	1800	110	< 1.5	96	< 1	28	25	23
		14766	10 - 20	8600	< 0.8	< 5	33	< 0.8	2900	21	4	34	10000	5	2000	120	< 1.5	66	< 1	29	26	19
		14767	10 - 20	9500	< 0.8	5	37	< 0.8	2800	23	5	50	11000	7	2000	120	< 1.5	67	< 1	29	28	21
Area B gravel	5037209	14768	0 - 5	9200	< 0.8	5	38	< 0.8	2900	22	5	61	12000	8	2100	120	< 1.5	93	< 1	26	29	35
Area C sand	5037210	14769	0 - 15	5200	< 0.8	< 5	22	< 0.8	2900	25	6	21	11000	3	3200	170	< 1.5	27	< 1	18	34	21
		14770	0 - 15	4800	< 0.8	< 5	21	< 0.8	2200	24	6	19	12000	3	3200	160	< 1.5	24	< 1	15	28	21
Area D sand	5037211	14771	0 - 15	5600	< 0.8	< 5	25	< 0.8	2700	26	6	24	14000	3	3400	180	< 1.5	30	< 1	19	34	20
Falconbridge Public School -Rainbow District School Board,72 Edison Street,Falconbridge																						
Area A grass	5037357	14755	0 - 5	9800	< 0.8	< 5	46	< 0.8	6300	35	11	58	13000	21	3400	220	1.5	110	< 1	42	30	36
		14756	0 - 5	8700	< 0.8	< 5	43	1	7000	31	12	66	12000	20	3400	210	1.8	120	< 1	38	26	35
Area B soil	5037358	14757	0 - 5	6100	< 0.8	< 5	26	< 0.8	2500	31	13	46	16000	11	4200	190	< 1.5	61	< 1	19	32	27
Area C sand	5037359	14758	0 - 15	4100	< 0.8	< 5	18	< 0.8	2400	22	6	17	12000	2	2900	140	< 1.5	37	< 1	13	28	14
		14759	0 - 15	4800	< 0.8	< 5	21	< 0.8	2700	25	6	21	13000	3	2900	150	< 1.5	34	< 1	19	30	15
Felix Rhard -Le Conse il Scolaire Catholique du Nouvel -Ontario,691 Lasalle Boulevard,Sudbury																						
Area A grass	5037194	14462	0 - 5	8700	< 0.8	< 5	34	< 0.8	4400	26	6	86	12000	14	2600	150	< 1.5	91	< 1	32	25	27
		14463	0 - 5	8900	< 0.8	< 5	27	< 0.8	3200	25	5	50	11000	9	1900	130	< 1.5	58	< 1	32	26	22
Area B soil	5037195	14464	0 - 5	7100	< 0.8	< 5	35	< 0.8	9600	29	8	34	14000	5	4700	180	< 1.5	39	< 1	41	29	29
		14465	0 - 5	7200	< 0.8	< 5	35	< 0.8	7600	28	8	31	14000	4	4300	180	< 1.5	34	< 1	39	28	23

Table F (results in bold)	NG	1.0	14	190	1.0	NG	67	19	56	NG	55	NG	NG	2.5	43	1.4	NG	91	150
Table A (results in bold and underlined)	NG	13	20	750	12.0	NG	750	40	225	NG	200	NG	NG	5.0	150	10	NG	200	600
< - less than the Method Detection Limit. All beryllium (Be) results were <0.5 $\mu\text{g/g}$. NG - no guideline.																			

Table B4.1: Concentration of 19 Elements in Soil in $\mu\text{g/g}$ Collected on 105 School Properties in the Sudbury Area in the Summer of 2001

Map ID	Station	Sample Number	Soil Depth	Al	Sb	As	Ba	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Mo	Ni	Se	Sr	V	Zn
Area C soil	5037196	14466	0 - 5	8400	< 0.8	7	43	< 0.8	7100	33	9	33	16000	4	4100	210	< 1.5	34	< 1	41	33	23
		14467	0 - 5	7800	< 0.8	< 5	42	< 0.8	6200	32	9	32	16000	4	4300	210	< 1.5	32	< 1	36	32	24
Area D sand	5037197	14468	0 - 15	4500	< 0.8	< 5	19	< 0.8	2900	25	6	17	12000	2	2900	140	< 1.5	30	< 1	18	29	27
Area E sand	5037198	14469	0 - 15	5000	< 0.8	< 5	20	< 0.8	2700	26	7	24	13000	3	2900	160	< 1.5	31	< 1	19	27	19
Area F sand	5037199	14470	0 - 15	6500	< 0.8	< 5	19	< 0.8	2600	25	7	24	13000	3	2900	150	< 1.5	28	< 1	17	28	17
Area G grass	5037200	14471	0 - 5	9200	< 0.8	< 5	29	< 0.8	3300	27	6	43	13000	9	2000	160	< 1.5	52	< 1	32	27	34
		14472	0 - 5	8900	< 0.8	6	27	< 0.8	3000	27	6	51	13000	9	2100	150	< 1.5	56	< 1	29	26	37
E.P. Foyer Jeunesse at E.S. Hanmer - Conseil Scolaire du District de Grand Nord de L'Ontario, 4752 Rue Notre Dame, Hanmer																						
Area A sand	5037343	14602	0 - 15	4500	< 0.8	< 5	16	< 0.8	1800	24	6	13	12000	2	3100	160	< 1.5	21	< 1	< 10	26	17
		14603	0 - 15	5100	< 0.8	< 5	18	< 0.8	2200	28	6	16	13000	3	3200	160	< 1.5	25	< 1	14	33	19
Area B gravel	5037344	14604	0 - 5	11000	< 0.8	< 5	40	< 0.8	3600	43	10	55	21000	9	5900	280	< 1.5	40	< 1	27	42	40
		14605	0 - 5	11000	< 0.8	< 5	40	< 0.8	3800	43	10	49	21000	10	5700	270	< 1.5	38	< 1	30	42	37
Area C grass	5037345	14596	0 - 5	9600	< 0.8	7	32	< 0.8	3000	25	4	27	11000	10	2400	130	< 1.5	39	< 1	16	22	24
		14597	0 - 5	11000	< 0.8	6	36	< 0.8	3000	26	5	35	12000	12	2300	150	< 1.5	42	< 1	22	25	27
		14598	5 - 10	10000	< 0.8	6	31	< 0.8	1800	25	4	19	11000	9	1800	130	< 1.5	29	< 1	17	24	21
		14599	5 - 10	9900	< 0.8	< 5	30	< 0.8	1600	24	4	16	11000	7	1700	110	< 1.5	28	< 1	14	22	18
		14600	10 - 20	9200	< 0.8	< 5	28	< 0.8	1400	23	4	13	10000	6	1800	100	< 1.5	23	< 1	12	21	17
		14601	10 - 20	9500	< 0.8	< 5	27	< 0.8	1600	24	4	12	11000	5	1800	110	< 1.5	23	< 1	15	23	19
Area D sand	5037346	14606	0 - 15	5400	< 0.8	< 5	22	< 0.8	2100	24	6	16	13000	2	3100	170	< 1.5	39	< 1	16	30	16
E.P. Franco Nord - Conseil Scolaire du District de Grand de L'ONTARIO, 178 Avenue Junction, Sudbury																						
Area A grass	5037361	14479	0 - 5	8800	< 0.8	< 5	29	< 0.8	3400	26	5	22	11000	7	2200	160	< 1.5	38	< 1	32	27	18
		14480	0 - 5	8500	< 0.8	6	27	< 0.8	3500	24	4	18	10000	6	2100	150	< 1.5	32	< 1	32	25	16
Area B sand	5037362	14481	0 - 15	6500	< 0.8	< 5	22	< 0.8	4300	25	7	22	18000	7	4300	210	< 1.5	19	< 1	30	39	27
Area C sand	5037363	14482	0 - 15	4500	< 0.8	< 5	16	< 0.8	5300	23	5	16	12000	4	3500	160	< 1.5	19	< 1	21	28	21
Area D gravel	5037364	14483	0 - 5	8100	< 0.8	5	32	< 0.8	3500	33	11	87	19000	12	5700	260	< 1.5	85	< 1	23	37	39
		14484	0 - 5	6700	< 0.8	6	25	< 0.8	3000	32	10	76	17000	11	4900	230	< 1.5	73	< 1	18	35	38

Table F (results in bold)	NG	1.0	14	190	1.0	NG	67	19	56	NG	55	NG	NG	2.5	43	1.4	NG	91	150
Table A (results in bold and underlined)	NG	13	20	750	12.0	NG	750	40	225	NG	200	NG	NG	5.0	150	10	NG	200	600
< - less than the Method Detection Limit. All beryllium (Be) results were <0.5 $\mu\text{g/g}$. NG - no guideline.																			

Table B4.1: Concentration of 19 Elements in Soil in µg/g Collected on 105 School Properties in the Sudbury Area in the Summer of 2001

Map ID	Station	Sample Number	Soil Depth	Al	Sb	As	Ba	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Mo	Ni	Se	Sr	V	Zn
Gatchell School - Rainbow District School Board, 31 Tuddenham Avenue, Sudbury																						
Area A sand	5037098	14208	0 - 15	7300	<0.8	< 5	33	<0.8	4300	32	9	85	19000	7	5300	240	< 1.5	59	< 1	29	39	32
Area B sand	5037099	14209	0 - 15	5200	<0.8	< 5	24	<0.8	3400	22	6	26	12000	3	2800	150	< 1.5	31	< 1	23	28	14
Area C grass	5037100	14210	0 - 5	7200	<0.8	< 5	32	<0.8	4200	26	5	43	9800	7	2300	150	< 1.5	51	< 1	34	26	19
		14211	0 - 5	6200	<0.8	< 5	24	<0.8	3000	32	7	27	15000	3	4000	180	< 1.5	29	< 1	23	31	21
Area D grass	5037101	14212	0 - 5	8000	<0.8	< 5	31	<0.8	3900	26	5	38	11000	7	2200	150	< 1.5	47	< 1	34	25	18
		14213	0 - 5	7700	<0.8	< 5	31	<0.8	3200	25	5	43	10000	6	2000	140	< 1.5	54	< 1	26	24	18
Area E grass	5037102	14214	0 - 5	8100	<0.8	8	45	<0.8	3700	51	20	530	20000	71	3600	180	< 1.5	360	3.1	32	32	96
		14215	0 - 5	8000	<0.8	7	41	<0.8	3000	49	21	480	21000	75	3000	190	< 1.5	380	2.8	33	33	99
George Vanier Public School - Rainbow District School Board, 249 6 th Avenue, Lively																						
Area A grass	5037248	14726	0 - 5	6600	<0.8	< 5	45	0.9	2800	29	17	190	15000	65	3000	140	< 1.5	320	2	16	24	39
		14727	0 - 5	8600	<0.8	7	70	1.6	4900	39	27	370	20000	110	3600	190	< 1.5	630	4	28	31	56
Area B gravel	5037249	14728	0 - 5	5400	<0.8	< 5	17	<0.8	3500	26	8	60	11000	6	3000	160	< 1.5	120	< 1	28	28	30
Area C sand	5037250	14729	0 - 15	6100	<0.8	< 5	23	<0.8	2800	29	7	19	14000	3	3700	170	< 1.5	26	< 1	23	28	19
Area D sand	5037251	14730	0 - 15	5000	<0.8	< 5	20	<0.8	1800	25	7	17	13000	2	3400	170	< 1.5	27	< 1	14	28	17
Area E gravel	5037252	14731	0 - 5	6400	<0.8	< 5	34	<0.8	7700	25	6	35	11000	7	4200	180	< 1.5	57	< 1	67	25	21
Area F grass	5037253	14732	0 - 5	5400	<0.8	< 5	24	<0.8	3200	21	6	43	8500	8	2500	140	< 1.5	68	< 1	26	20	21
		14733	0 - 5	6700	<0.8	< 5	32	<0.8	3500	24	7	67	11000	13	2600	150	< 1.5	110	< 1	32	23	26
E.S. Hanmer - Conseil Scolaire du District de Grand Nord de L'Ontario, 4800 Rue Notre Dame, Hanmer																						
Area A grass	5037339	14586	0 - 5	10000	<0.8	< 5	42	<0.8	17000	37	6	33	13000	79	3800	200	< 1.5	50	< 1	28	27	46
		14587	0 - 5	11000	<0.8	< 5	52	<0.8	6400	39	7	46	15000	78	3200	240	< 1.5	62	< 1	24	30	44
Area B soil	5037340	14588	0 - 5	9800	<0.8	< 5	32	<0.8	5600	29	5	30	13000	25	2600	190	< 1.5	41	< 1	33	28	30

Table F (results in bold)	NG	1.0	14	190	1.0	NG	67	19	56	NG	55	NG	NG	2.5	43	1.4	NG	91	150
Table A (results in bold and underlined)	NG	13	20	750	12.0	NG	750	40	225	NG	200	NG	NG	5.0	150	10	NG	200	600
< - less than the Method Detection Limit. All beryllium (Be) results were <0.5 µg/g. NG - no guideline.																			

Table B4.1: Concentration of 19 Elements in Soil in $\mu\text{g/g}$ Collected on 105 School Properties in the Sudbury Area in the Summer of 2001

Map ID	Station	Sample Number	Soil Depth	Al	Sb	As	Ba	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Mo	Ni	Se	Sr	V	Zn
Area C grass	5037341	14589	0 - 5	11000	<0.8	6	36	<0.8	4700	31	5	39	13000	12	2200	170	< 1.5	50	< 1	40	30	27
		14590	0 - 5	9800	<0.8	< 5	33	<0.8	4200	28	5	36	12000	11	2200	150	< 1.5	46	< 1	33	27	26
		14591	5 - 10	10000	<0.8	< 5	29	<0.8	4000	27	4	29	12000	9	1900	150	< 1.5	37	< 1	40	28	23
		14592	5 - 10	7000	<0.8	< 5	23	<0.8	2100	23	4	31	7700	8	1100	110	< 1.5	42	< 1	26	25	17
		14593	10 - 20	11000	<0.8	< 5	27	<0.8	3600	26	4	30	12000	7	1800	140	< 1.5	34	< 1	39	27	19
		14594	10 - 20	7300	<0.8	< 5	22	<0.8	1700	20	4	29	9500	8	1700	85	< 1.5	33	< 1	12	22	18
Area D sand	5037342	14595	0 - 15	4900	<0.8	< 5	21	<0.8	1800	25	6	18	14000	3	3000	170	< 1.5	25	< 1	13	33	18
Immaculate Conception - Sudbury Catholic District School Board, 1748 Pierre Street, Val Caron																						
Area A gravel	5037293	14786	0 - 5	9400	<0.8	6	38	<0.8	4100	39	9	84	20000	16	5700	250	1.6	79	1	29	38	53
		14787	0 - 5	8600	<0.8	< 5	34	<0.8	3400	40	9	70	20000	12	5800	230	< 1.5	67	< 1	23	39	43
E.P. Jeanne-Sauve, 300 Rue Van Horne - Conseil Scolaire du District de Grand Nord de L'Ontario, Sudbury																						
Area A grass	5037089	14179	0 - 5	8900	<0.8	< 5	43	<0.8	11000	33	7	92	13000	17	5800	210	< 1.5	110	< 1	34	27	33
		14180	0 - 5	7500	<0.8	< 5	40	<0.8	10000	29	7	110	12000	19	5500	190	< 1.5	130	< 1	30	24	36
Area B soil	5037090	14183	0 - 5	7500	<0.8	< 5	41	<0.8	8800	30	7	94	12000	16	4600	190	< 1.5	110	< 1	29	27	73
Area C soil	5037091	14184	0 - 5	5800	<0.8	< 5	21	<0.8	3200	28	7	19	13000	3	4000	170	< 1.5	20	< 1	20	27	17
Area D grass	5037092	14181	0 - 5	8100	<0.8	< 5	34	<0.8	4000	26	7	110	12000	22	3000	160	< 1.5	99	< 1	25	24	33
		14182	0 - 5	7200	<0.8	< 5	34	<0.8	4000	28	8	130	12000	28	3300	170	< 1.5	130	1.4	22	25	38
		14187	5 - 10	9900	<0.8	< 5	31	<0.8	2300	25	4	47	11000	8	1800	110	< 1.5	49	< 1	22	25	23
		14188	5 - 10	9900	<0.8	< 5	32	<0.8	3400	27	5	66	12000	14	2300	150	< 1.5	64	< 1	30	27	26
		14189	10 - 20	11000	<0.8	< 5	39	<0.8	3100	29	4	25	13000	7	2200	160	< 1.5	37	< 1	33	32	23
		14190	10 - 20	11200	<0.8	< 5	35	<0.8	2200	25	4	25	14000	7	2000	150	< 1.5	35	< 1	20	26	22
Area E sand	5030970	14185	0 - 15	5800	<0.8	< 5	18	<0.8	2500	25	7	21	15000	3	4200	160	< 1.5	20	< 1	14	28	16
Area F sand	5037093	14186	0 - 15	6000	<0.8	< 5	19	<0.8	2200	28	7	23	15000	3	4200	190	< 1.5	25	< 1	14	28	17

Table F (results in bold)	NG	1.0	14	190	1.0	NG	67	19	56	NG	55	NG	NG	2.5	43	1.4	NG	91	150
Table A (results in bold and underlined)	NG	13	20	750	12.0	NG	750	40	225	NG	200	NG	NG	5.0	150	10	NG	200	600
< - less than the Method Detection Limit. All beryllium (Be) results were <0.5 $\mu\text{g/g}$. NG - no guideline.																			

Table B4.1: Concentration of 19 Elements in Soil in $\mu\text{g/g}$ Collected on 105 School Properties in the Sudbury Area in the Summer of 2001

Map ID	Station	Sample Number	Soil Depth	Al	Sb	As	Ba	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Mo	Ni	Se	Sr	V	Zn
E.P. Jean-Ethier-Blais - Conseil Scolaire du District de Grand Nord de L'Ontario, 2190 Boulevard Lasalle, Sudbury																						
Area A grass	5037151	14391	0 - 5	4600	<0.8	< 5	18	<0.8	2600	23	5	12	12000	2	3000	140	< 1.5	18	< 1	17	25	16
		14392	0 - 5	4300	<0.8	< 5	17	<0.8	2600	24	5	13	12000	2	2900	140	< 1.5	18	< 1	16	27	18
		14393	5 - 10	10000	<0.8	< 5	44	<0.8	5700	30	7	52	15000	9	3100	190	< 1.5	63	< 1	41	32	40
		14394	5 - 10	10000	<0.8	< 5	42	<0.8	4400	32	7	54	14000	8	3000	150	< 1.5	61	< 1	35	32	46
		14401	10 - 20	8100	<0.8	5	32	<0.8	2700	32	7	38	12000	9	2900	180	< 1.5	44	< 1	19	26	45
Area B grass	5037152	14395	0 - 5	4100	<0.8	< 5	15	<0.8	2100	20	5	11	11000	2	2800	130	< 1.5	16	< 1	14	23	12
		14396	0 - 5	10000	<0.8	< 5	45	<0.8	4500	34	8	85	13000	15	2600	190	< 1.5	100	< 1	38	31	33
		14397	5 - 10	11000	<0.8	< 5	42	<0.8	4400	37	7	77	14000	13	2600	180	< 1.5	86	< 1	40	34	31
		14398	5 - 10	10000	<0.8	5	37	<0.8	3400	33	7	60	14000	10	2600	180	< 1.5	73	< 1	31	32	26
		14402	10 - 20	7100	<0.8	< 5	32	<0.8	2400	23	4	31	9500	7	1900	130	< 1.5	45	< 1	17	23	20
Area C soil	5037153	14399	0 - 5	8000	<0.8	< 5	29	<0.8	2200	26	5	33	12000	8	2300	150	< 1.5	42	< 1	16	25	41
		14400	0 - 5	8200	<0.8	< 5	40	<0.8	2800	24	5	33	12000	8	1900	160	< 1.5	59	< 1	22	26	26
Area D sand	5037154	14404	0 - 15	4100	<0.8	< 5	16	<0.8	2800	22	5	13	12000	2	2900	140	< 1.5	19	< 1	12	34	22
Jacques Cartier - Le Conseil Scolaire Catholique du Nouvel - Ontario, C.P. 1357, 14 Rue Ontario, Chelmsford																						
Area A gravel	5037385	14540	0 - 5	8000	<0.8	< 5	27	<0.8	3500	29	9	38	17000	12	4300	210	< 1.5	35	< 1	27	32	30
		14541	0 - 5	7900	<0.8	< 5	25	<0.8	3600	31	9	42	19000	14	4800	220	< 1.5	35	< 1	28	37	34
Area B sand	5037386	14542	0 - 15	6200	<0.8	< 5	19	<0.8	3700	24	6	18	16000	5	4200	200	< 1.5	16	< 1	26	34	22
Area C sand	5037387	14543	0 - 15	8000	<0.8	< 5	26	<0.8	4000	31	8	29	18000	6	4400	240	< 1.5	23	< 1	33	37	33
Jessie Hamilton Public School - Rainbow District School Board, 16 Jessie Street, Lively																						
Area A sand	5037227	14694	0 - 15	6300	<0.8	< 5	22	<0.8	3200	27	7	17	13000	3	3700	170	< 1.5	22	< 1	24	27	18
		14695	0 - 15	6500	<0.8	< 5	24	<0.8	3900	30	6	16	15000	3	3800	190	< 1.5	22	< 1	25	34	21
Area B sand	5037228	14696	0 - 15	6700	<0.8	< 5	23	<0.8	3000	31	10	60	15000	5	4100	190	< 1.5	150	< 1	22	33	40
		14697	0 - 15	7900	<0.8	< 5	25	<0.8	3200	31	7	47	16000	6	4200	190	< 1.5	67	< 1	25	30	25
Area C soil	5037229	14698	0 - 5	9900	<0.8	< 5	46	<0.8	8400	24	5	36	12000	7	4300	180	< 1.5	60	< 1	89	26	27
		14699	0 - 5	10000	<0.8	< 5	46	<0.8	8400	25	5	37	13000	7	4400	180	< 1.5	63	< 1	84	27	37
Area D grass	5037230	14700	0 - 5	9800	<0.8	< 5	65	<0.8	18000	30	10	130	15000	18	9200	210	< 1.5	260	< 1	170	28	43
		14701	0 - 5	11000	<0.8	< 5	49	1.5	7000	38	10	110	17000	17	4600	250	< 1.5	240	< 1	46	33	42

Table F (results in bold)	NG	1.0	14	190	1.0	NG	67	19	56	NG	55	NG	NG	2.5	43	1.4	NG	91	150
Table A (results in bold and underlined)	NG	13	20	750	12.0	NG	750	40	225	NG	200	NG	NG	5.0	150	10	NG	200	600

< - less than the Method Detection Limit. All beryllium (Be) results were <0.5 $\mu\text{g/g}$. NG - no guideline.

Table B4.1: Concentration of 19 Elements in Soil in µg/g Collected on 105 School Properties in the Sudbury Area in the Summer of 2001

Map ID	Station	Sample Number	Soil Depth	Al	Sb	As	Ba	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Mo	Ni	Se	Sr	V	Zn
Area E soil	5037231	14702	0 - 5	12000	< 0.8	< 5	46	< 0.8	7000	42	8	60	18000	10	5300	290	< 1.5	96	< 1	41	36	49
Area F soil	5037232	14703	0 - 5	7900	< 0.8	< 5	46	< 0.8	7400	26	6	52	13000	9	3100	270	< 1.5	84	< 1	30	27	39
Area G gravel	5037233	14704	0 - 5	7400	< 0.8	< 5	34	< 0.8	3500	34	12	61	17000	7	5400	210	< 1.5	100	< 1	21	32	31
Area H grass	5037234	14705	0 - 5	8900	< 0.8	< 5	40	< 0.8	4100	30	9	110	15000	16	3200	190	< 1.5	260	< 1	30	29	30
		14706	0 - 5	9200	< 0.8	5	40	< 0.8	4200	30	8	110	15000	17	3000	170	< 1.5	250	< 1	31	30	29
Lansdowne Public School - Rainbow District School Board, 185 Lansdowne Street North, Sudbury																						
Area A grass	5037115	14261	0 - 5	11000	< 0.8	6	52	< 0.8	8400	34	9	150	15000	23	4000	230	< 1.5	170	1	41	30	39
		14262	0 - 5	11000	< 0.8	6	53	< 0.8	7400	35	9	130	15000	18	3700	210	< 1.5	160	< 1	37	29	38
Area B gravel	5037116	14263	0 - 5	9300	< 0.8	5	47	< 0.8	7300	31	10	150	14000	18	4000	210	< 1.5	170	< 1	36	29	53
		14264	0 - 5	9800	< 0.8	5	47	< 0.8	9800	33	10	120	15000	18	5300	240	< 1.5	140	< 1	47	30	33
Area C sand	5037117	14265	0 - 15	5300	< 0.8	< 5	24	< 0.8	2700	33	7	52	15000	4	3000	160	< 1.5	67	< 1	23	35	28
		14266	0 - 15	4900	< 0.8	< 5	19	< 0.8	2300	30	7	45	14000	4	3000	150	< 1.5	57	< 1	18	34	25
Larchwood Public School - Rainbow District School Board, Box 220 Main Street, Dowling																						
Area A grass	5037402	14557	0 - 5	13000	< 0.8	< 5	50	< 0.8	6300	46	6	23	15000	30	3900	230	< 1.5	44	< 1	45	33	34
		14558	0 - 5	13000	< 0.8	< 5	54	< 0.8	7900	53	7	25	16000	51	4300	250	< 1.5	49	< 1	51	35	38
Area B sand	5037403	14559	0 - 15	5900	< 0.8	< 5	20	< 0.8	3400	26	6	19	16000	4	4300	200	< 1.5	19	< 1	22	34	23
Area C soil	5037404	14560	0 - 5	11000	< 0.8	< 5	44	< 0.8	9100	37	5	24	13000	14	4100	200	< 1.5	38	< 1	46	30	37
Lasalle Secondary - Rainbow District School Board, 1545 Kennedy Street, Sudbury																						
Area A grass	5037215	14333	0 - 5	9300	< 0.8	6	42	< 0.8	4500	30	7	83	13000	26	2700	170	< 1.5	90	< 1	32	29	26
		14334	0 - 5	9000	< 0.8	< 5	46	1	6900	37	10	160	13000	53	3100	220	< 1.5	160	2	35	27	38
Area B grass	5037216	14335	0 - 5	11000	< 0.8	< 5	36	< 0.8	5600	35	6	55	14000	28	2800	210	< 1.5	73	< 1	39	31	25
		14336	0 - 5	10000	< 0.8	< 5	36	< 0.8	6500	45	7	66	14000	77	2400	210	< 1.5	84	< 1	38	30	26
		14339	5 - 10	9900	< 0.8	5	32	< 0.8	4200	29	6	40	13000	9	2500	200	< 1.5	55	< 1	30	29	22
		14340	10 - 20	7800	< 0.8	5	30	< 0.8	2700	21	5	41	12000	6	1900	150	< 1.5	56	< 1	22	24	18
Area C soil	5037217	14337	0 - 5	8500	< 0.8	< 5	31	< 0.8	4100	22	3	20	9200	9	2500	140	< 1.5	29	< 1	36	23	17

Table F (results in bold)	NG	1.0	14	190	1.0	NG	67	19	56	NG	55	NG	NG	2.5	43	1.4	NG	91	150
Table A (results in bold and underlined)	NG	13	20	750	12.0	NG	750	40	225	NG	200	NG	NG	5.0	150	10	NG	200	600
< - less than the Method Detection Limit. All beryllium (Be) results were <0.5 µg/g. NG - no guideline.																			

Table B4.1: Concentration of 19 Elements in Soil in µg/g Collected on 105 School Properties in the Sudbury Area in the Summer of 2001																						
Map ID	Station	Sample Number	Soil Depth	Al	Sb	As	Ba	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Mo	Ni	Se	Sr	V	Zn
Area D soil	5037218	14338	0 - 5	9100	< 0.8	< 5	32	< 0.8	4300	25	4	26	11000	12	2400	150	< 1.5	35	< 1	37	25	19
Levack Public School (formerly) - Rainbow District School Board, 38 School Street, Levack																						
Area A gravel	5037406	14568	0 - 5	7600	< 0.8	< 5	28	< 0.8	4600	27	7	43	14000	23	4000	190	< 1.5	50	< 1	24	27	30
		14569	0 - 5	6800	1	5	35	< 0.8	4100	23	17	670	19000	32	3600	170	< 1.5	350	1	21	26	46
Area B sand	5037407	14570	0 - 15	4600	< 0.8	< 5	18	< 0.8	2800	23	6	15	13000	2	3400	150	< 1.5	16	< 1	13	29	18
Levack District High School (now Levack Public School) - Rainbow District School Board, 100 High Street, Levack																						
Area A grass	5037408	14563	0 - 5	8800	< 0.8	< 5	54	< 0.8	11000	33	8	48	12000	21	3200	330	< 1.5	72	1	46	28	62
		14564	0 - 5	9200	< 0.8	< 5	53	< 0.8	10000	33	9	44	12000	16	3100	440	< 1.5	73	< 1	47	29	40
		14565	5 - 10	9700	< 0.8	< 5	46	< 0.8	9700	34	7	29	14000	7	3600	270	< 1.5	40	1	49	34	24
		14566	5 - 10	9600	< 0.8	< 5	46	< 0.8	10000	34	7	36	13000	8	3600	230	< 1.5	53	< 1	45	33	27
		14567	10 - 20	8600	< 0.8	< 5	38	< 0.8	12000	33	6	28	13000	7	3800	210	< 1.5	45	< 1	36	31	26
Lively District High School - Rainbow District School Board, 5 th Avenue, Lively																						
Area A grass	5037247	14734	0 - 5	11000	< 0.8	6	42	< 0.8	5500	60	6	60	15000	120	2900	200	< 1.5	85	< 1	43	31	31
		14735	0 - 5	11000	< 0.8	< 5	47	< 0.8	6200	47	8	93	14000	85	3000	210	< 1.5	140	1	40	29	34
		14736	5 - 10	9000	< 0.8	7	28	< 0.8	2800	24	5	37	12000	11	1800	160	< 1.5	54	< 1	24	26	23
		14737	10 - 20	8900	< 0.8	5	31	< 0.8	2200	22	4	30	12000	6	1700	150	< 1.5	42	< 1	20	25	23
Lockerby Composite School - Rainbow District School Board, 1391 Ramsey View Court, Sudbury																						
Area A grass	5037055	14111	0 - 5	9600	1.3	< 5	48	< 0.8	6000	36	7	75	13000	75	3100	200	< 1.5	87	< 1	41	28	25
		14112	0 - 5	10000	0.9	< 5	39	< 0.8	6800	67	8	110	13000	200	3200	220	< 1.5	120	< 1	42	28	30
Area B soil	5037056	14113	0 - 5	10000	3.2	< 5	35	< 0.8	6400	39	7	62	14000	110	3600	230	< 1.5	85	< 1	45	31	26
Area C soil	5037057	14114	0 - 5	9900	4.4	< 5	32	< 0.8	5600	33	6	50	13000	150	3400	200	< 1.5	70	< 1	43	30	25
LoEllen Park Secondary - Rainbow District School Board, 275 Loach's Road, Sudbury																						
Area A grass	5037029	14078	0 - 5	9500	< 0.8	< 5	41	< 0.8	6500	54	10	120	12000	140	2600	170	< 1.5	160	< 1	34	27	25
		14079	0 - 5	9200	< 0.8	< 5	37	< 0.8	5600	51	10	120	13000	120	2500	160	< 1.5	140	< 1	32	26	24
		14080	5 - 10	9700	< 0.8	8	36	< 0.8	4800	27	8	91	13000	11	2600	140	< 1.5	130	< 1	30	29	21
		14081	5 - 10	10000	< 0.8	< 5	34	< 0.8	4600	27	8	89	13000	12	2600	150	< 1.5	110	< 1	30	28	20
		14082	10 - 20	7900	< 0.8	< 5	30	< 0.8	3700	23	6	53	11000	7	2300	130	< 1.5	78	< 1	28	26	15
		14083	10 - 20	5800	< 0.8	< 5	21	< 0.8	2800	19	5	29	9500	4	2100	110	< 1.5	40	< 1	23	22	12

Table F (results in bold)	NG	1.0	14	190	1.0	NG	67	19	56	NG	55	NG	NG	2.5	43	1.4	NG	91	150
Table A (results in bold and underlined)	NG	13	20	750	12.0	NG	750	40	225	NG	200	NG	NG	5.0	150	10	NG	200	600
< - less than the Method Detection Limit. All beryllium (Be) results were <0.5 µg/g. NG - no guideline.																			

Table B4.1: Concentration of 19 Elements in Soil in µg/g Collected on 105 School Properties in the Sudbury Area in the Summer of 2001

Map ID	Station	Sample Number	Soil Depth	Al	Sb	As	Ba	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Mo	Ni	Se	Sr	V	Zn
Area B soil	5037030	14084	0 - 5	9700	< 0.8	< 5	37	< 0.8	2800	27	6	45	13000	14	2100	210	< 1.5	53	< 1	28	28	21
Area C soil	5037031	14085	0 - 5	11000	< 0.8	< 5	48	< 0.8	5400	34	9	110	14000	29	2800	170	< 1.5	130	< 1	34	31	27
Long Lake Public School - Rainbow District School Board,4420 Long Lake Road,Sudbury																						
Area A grass	5037021	14197	0 - 5	7000	< 0.8	6	33	< 0.8	2500	23	7	92	12000	15	2100	160	< 1.5	110	< 1	18	23	26
		14198	0 - 5	6800	< 0.8	6	28	< 0.8	2000	21	6	82	11000	10	1800	140	< 1.5	84	< 1	15	22	22
		14201	5 - 10	9100	< 0.8	7	37	< 0.8	2500	24	5	60	12000	8	1600	210	< 1.5	74	< 1	28	26	24
		14202	5 - 10	7400	< 0.8	9	34	< 0.8	1600	22	5	82	11000	10	1700	140	< 1.5	78	< 1	13	20	23
		14203	10 - 20	10000	< 0.8	< 5	38	< 0.8	2700	27	5	18	12000	5	2400	170	< 1.5	44	< 1	26	25	22
		14204	10 - 20	11000	< 0.8	6	39	< 0.8	3300	26	5	28	13000	6	2200	200	< 1.5	59	< 1	34	28	23
Area B sand	5037022	14199	0 - 15	5500	< 0.8	< 5	29	< 0.8	1800	27	7	21	14000	3	4100	170	< 1.5	21	< 1	10	25	23
		14200	0 - 15	6200	< 0.8	< 5	33	< 0.8	2500	28	8	41	15000	3	4200	180	< 1.5	24	< 1	15	28	24
E.S. Macdonald Cartier -Conseil Scolaire du District de Grand Nord de l'Ontario,37 Boulevard Lasalle West,Sudbury																						
Area A grass	5037203	14473	0 - 5	9200	< 0.8	5	38	< 0.8	5900	29	7	99	12000	35	2100	160	< 1.5	110	< 1	33	27	25
		14474	0 - 5	8600	< 0.8	6	45	0.9	5200	54	9	140	11000	150	2300	170	< 1.5	170	2	32	25	31
Area B soil	5037204	14475	0 - 5	10000	< 0.8	6	36	< 0.8	4800	31	6	51	13000	13	2300	180	< 1.5	73	< 1	42	29	24
Area C soil	5037205	14476	0 - 5	9000	< 0.8	< 5	32	< 0.8	3900	25	5	37	12000	9	2200	180	< 1.5	47	< 1	31	25	21
MacLeod Public School - Rainbow District School Board,310 Anthony Street,Sudbury																						
Area A sand	5037047	14104	0 - 15	8800	< 0.8	< 5	31	< 0.8	4000	25	5	33	11000	7	2200	150	< 1.5	43	< 1	36	26	17
		14105	0 - 15	8300	< 0.8	< 5	26	< 0.8	3800	35	7	22	17000	3	4600	200	< 1.5	28	< 1	30	33	21
Area B gravel	5037048	14100	0 - 5	15000	< 0.8	< 5	68	< 0.8	8200	29	12	100	24000	9	6100	200	< 1.5	81	< 1	90	68	34
		14101	0 - 5	14000	< 0.8	< 5	65	< 0.8	7600	29	15	96	24000	8	5900	200	< 1.5	64	< 1	85	66	29
Area C grass	5037049	14102	0 - 5	12000	< 0.8	< 5	52	< 0.8	9000	41	10	130	17000	16	5000	380	< 1.5	160	1.1	46	35	40
		14103	0 - 5	12000	< 0.8	< 5	47	< 0.8	6600	39	9	150	16000	19	4200	300	< 1.5	140	1.1	39	33	38
Marymount Academy -Sudbury Catholic District School Board,165 D'Youville Street,Sudbury																						
Area A grass	5037134	14246	0 - 5	8700	< 0.8	14	53	1.3	3800	26	22	500	16000	70	2200	180	< 1.5	510	3	28	28	50
		14247	0 - 5	8400	< 0.8	14	51	1.3	3800	26	28	510	18000	65	2100	180	< 1.5	660	4	27	28	52
		14248	5 - 10	6900	< 0.8	10	31	< 0.8	2300	18	8	150	11000	30	1700	120	< 1.5	160	< 1	17	23	37

Table F (results in bold)	NG	1.0	14	190	1.0	NG	67	19	56	NG	55	NG	NG	2.5	43	1.4	NG	91	150
Table A (results in bold and underlined)	NG	13	20	750	12.0	NG	750	40	225	NG	200	NG	NG	5.0	150	10	NG	200	600
< - less than the Method Detection Limit. All beryllium (Be) results were <0.5 µg/g. NG - no guideline.																			

Table B4.1: Concentration of 19 Elements in Soil in µg/g Collected on 105 School Properties in the Sudbury Area in the Summer of 2001																						
Map ID	Station	Sample Number	Soil Depth	Al	Sb	As	Ba	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Mo	Ni	Se	Sr	V	Zn
Mgr. Cote,C.P. 789 -Le Conseil Scolarie Catholi qe du Nouvel - Ontario ,96 Be Gaudette,Chelmsford																						
Area A grass	5037392	14532	0 - 5	8800	< 0.8	< 5	35	< 0.8	7300	25	8	44	15000	13	4300	280	< 1.5	64	< 1	37	30	32
		14533	0 - 5	9700	< 0.8	< 5	47	< 0.8	10000	28	10	55	17000	14	5400	370	< 1.5	65	< 1	39	34	40
Area B gravel	5037393	14534	0 - 5	7200	< 0.8	< 5	29	< 0.8	3700	32	10	49	16000	21	4000	200	< 1.5	51	< 1	28	32	35
		14535	0 - 5	7600	< 0.8	< 5	33	< 0.8	3800	32	12	78	15000	24	4100	210	< 1.5	78	< 1	27	29	40
Montessori School of Sudbury -Privat e School,295 Victoria Street,Sudbury																						
Area A grass	5037109	14216	0 - 5	8300	< 0.8	< 5	35	< 0.8	5700	28	7	80	13000	13	2900	170	< 1.5	110	< 1	30	26	31
		14217	0 - 5	8300	< 0.8	< 6	44	< 0.8	5600	32	10	150	13000	24	3100	180	< 1.5	210	1.1	32	28	39
Area B sand	5037110	14218	0 - 15	5900	< 0.8	< 5	22	< 0.8	3100	26	7	30	17000	3	4100	160	< 1.5	32	< 1	16	33	17
Area C gravel	5037111	14219	0 - 5	20000	< 0.8	< 5	120	< 0.8	2200	90	28	150	43000	19	14000	390	< 1.5	120	< 1	10	73	90
		14220	0 - 5	20000	< 0.8	< 5	120	< 0.8	2000	86	30	130	42000	15	14000	370	< 1.5	130	< 1	10	70	95
Northeastern Secondary - Rainbow District School Board,45 Spruce Street,Garson																						
Area A grass	5037322	14407	0 - 5	7300	< 0.8	8	32	< 0.8	3900	26	8	88	13000	27	2900	240	< 1.5	120	< 1	17	26	37
		14408	0 - 5	8000	< 0.8	9	39	< 0.8	5600	30	10	140	14000	51	2800	250	< 1.5	180	< 1	31	27	45
		14409	5 - 10	7500	< 0.8	6	28	< 0.8	3600	28	5	30	12000	11	3100	240	< 1.5	52	< 1	24	30	27
		14410	5 - 10	10000	< 0.8	8	36	< 0.8	4600	31	5	31	15000	10	3000	300	< 1.5	51	< 1	38	36	33
		14413	10 - 20	8400	< 0.8	6	35	< 0.8	3600	28	5	25	13000	9	2800	220	< 1.5	38	< 1	27	31	25
		14414	10 - 20	5200	< 0.8	6	24	< 0.8	2500	21	4	16	9100	4	2200	150	< 1.5	26	< 1	20	23	15
Area B grass	5037323	14405	0 - 5	7200	< 0.8	9	48	0.9	5800	26	15	210	14000	45	3600	200	< 1.5	250	1	36	25	72
		14406	0 - 5	7400	< 0.8	7	37	< 0.8	4100	25	8	81	13000	15	2900	220	< 1.5	110	< 1	23	27	35
Area C gravel	5037324	14411	0 - 5	7600	< 0.8	7	30	< 0.8	4700	27	6	37	12000	8	2900	250	< 1.5	58	< 1	40	29	30
		14412	0 - 5	8600	< 0.8	6	29	< 0.8	4700	28	6	33	13000	9	2800	230	< 1.5	58	< 1	44	30	27
Notre Dame -Le Conseil Scolaire Catholique du Nouvel - Ontario ,4503 Be Dennie, Winnipeg																						
Area A gravel	5037327	14628	0 - 5	7600	< 0.8	6	36	< 0.8	3100	39	32	80	24000	17	5200	220	< 1.5	74	< 1	19	35	51
		14629	0 - 5	11000	< 0.8	< 5	48	< 0.8	5100	41	17	56	23000	10	5800	260	< 1.5	52	< 1	38	38	53
Area B grass	5037328	14630	0 - 5	9700	< 0.8	6	42	< 0.8	3500	30	6	67	13000	16	2400	230	< 1.5	75	1	34	28	38
		14631	0 - 5	13000	< 0.8	5	43	< 0.8	4000	32	6	51	15000	14	2400	250	< 1.5	54	< 1	42	29	32
		14632	5 - 10	13000	< 0.8	< 5	38	< 0.8	3900	29	4	31	13000	8	1900	190	< 1.5	39	< 1	40	28	26
		14633	5 - 10	10000	< 0.8	6	36	< 0.8	2500	26	5	54	12000	44	1900	170	< 1.5	50	< 1	26	26	24
		14634	10 - 20	10000	< 0.8	< 5	34	< 0.8	2900	26	4	14	11000	6	1800	160	< 1.5	24	< 1	32	26	19
		14635	10 - 20	12000	< 0.8	< 5	32	< 0.8	2500	27	4	10	12000	5	1900	150	< 1.5	23	< 1	27	27	22

Table F (results in bold)	NG	1.0	14	190	1.0	NG	67	19	56	NG	55	NG	NG	2.5	43	1.4	NG	91	150
Table A (results in bold and underlined)	NG	13	20	750	12.0	NG	750	40	225	NG	200	NG	NG	5.0	150	10	NG	200	600
< - less than the Method Detection Limit. All beryllium (Be) results were <0.5 µg/g. NG - no guideline.																			

Table B4.1: Concentration of 19 Elements in Soil in µg/g Collected on 105 School Properties in the Sudbury Area in the Summer of 2001																						
Map ID	Station	Sample Number	Soil Depth	Al	Sb	As	Ba	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Mo	Ni	Se	Sr	V	Zn
Area C soil	5037329	14636	0 - 5	9400	< 0.8	< 5	32	< 0.8	4000	46	11	68	21000	12	5800	300	< 1.5	50	< 1	28	46	48
Notre Dame de l'Esperance -Le Conseil Scolaire Catholique du Nouvel-Ontario,2965 Belle Val Caron																						
Area A grass	5037290	14808	0 - 5	11000	< 0.8	< 5	35	< 0.8	5000	61	4	36	33000	14	5200	330	< 1.5	66	< 1	43	78	36
		14809	0 - 5	11000	< 0.8	< 5	42	< 0.8	18000	66	4	40	12000	11	3400	170	< 1.5	54	< 1	51	28	25
		14810	5 - 10	9500	< 0.8	< 5	46	< 0.8	38000	40	4	54	11000	8	5600	180	< 1.5	53	< 1	52	24	29
		14811	5 - 10	11000	< 0.8	< 5	32	< 0.8	5000	26	4	27	11000	7	1900	160	< 1.5	40	< 1	38	29	18
		14812	10 - 20	7400	< 0.8	< 5	26	< 0.8	2500	19	3	14	7000	5	1600	88	< 1.5	26	< 1	23	18	12
		14813	10 - 20	9500	< 0.8	< 5	37	< 0.8	3900	24	3	24	8500	6	1700	130	< 1.5	36	< 1	39	21	14
Area B sand	5037291	14814	0 - 15	6100	< 0.8	< 5	36	< 0.8	3800	28	6	21	15000	3	3500	180	< 1.5	28	< 1	23	35	18
		14815	0 - 15	7900	< 0.8	< 5	31	< 0.8	4300	36	6	21	17000	5	4100	210	< 1.5	24	< 1	29	40	20
Area C gravel	5037292	14816	0 - 5	8300	< 0.8	< 5	35	< 0.8	4400	34	10	57	17000	7	5000	210	< 1.5	53	< 1	31	34	31
		14817	0 - 5	8000	< 0.8	< 5	31	< 0.8	4100	32	11	75	18000	7	5000	210	< 1.5	120	< 1	28	34	30
Notre Dame de la Merci -Le Conseil Scolaire Catholique du Nouvel-Ontario,2 Edward Avenue,Coniston																						
Area A gravel	5037265	14750	0 - 5	9300	1.5	13	44	< 0.8	2900	42	14	200	25000	30	4300	180	< 1.5	190	1	27	34	42
		14751	0 - 5	9200	< 0.8	8	40	< 0.8	3700	39	15	140	22000	17	5700	220	< 1.5	170	< 1	27	35	40
Notre Dame du Rosaire -Le Conseil Scolaire Catholique du Nouvel-Ontario,2891 Chemin Martin,Bleazard Valley																						
Area A grass	5037304	14800	0 - 5	9000	< 0.8	< 5	30	< 0.8	4100	26	6	63	12000	14	2300	170	< 1.5	82	< 1	37	28	26
		14801	0 - 5	11000	< 0.8	< 5	41	< 0.8	3900	24	6	35	13000	17	2100	240	< 1.5	92	< 1	39	29	27
		14802	5 - 10	8800	< 0.8	< 5	29	< 0.8	4100	38	4	26	18000	7	4500	250	< 1.5	37	< 1	35	45	24
		14803	5 - 10	11000	< 0.8	< 5	28	< 0.8	4700	51	5	28	24000	8	5700	290	< 1.5	38	< 1	35	65	41
		14804	10 - 20	12000	< 0.8	< 5	38	< 0.8	5100	56	5	37	27000	5	5600	330	< 1.5	25	< 1	44	63	30
		14805	10 - 20	12000	< 0.8	< 5	48	< 0.8	5200	54	5	51	26000	8	5900	340	< 1.5	44	< 1	43	61	38
Area B gravel	5037305	14806	0 - 5	9000	< 0.8	< 5	42	< 0.8	4400	52	10	36	26000	9	4900	340	< 1.5	45	< 1	40	58	41
		14807	0 - 5	11000	< 0.8	< 5	36	< 0.8	4600	56	10	40	30000	8	5400	320	< 1.5	47	< 1	39	69	38
Our Lady of Fatima -Sudbury Catholic District School Board,1755 Highway 55,Naughton																						
Area A grass	5037262	14738	0 - 5	8200	< 0.8	< 5	29	< 0.8	3200	23	5	45	11000	14	2100	160	< 1.5	71	< 1	26	23	25
		14739	0 - 5	8000	< 0.8	< 5	29	< 0.8	3200	23	5	44	11000	12	2000	160	< 1.5	68	< 1	25	23	25
		14740	5 - 10	8600	< 0.8	6	29	< 0.8	2500	22	5	35	11000	8	1800	170	< 1.5	55	< 1	21	23	27
		14741	5 - 10	7700	< 0.8	< 5	27	< 0.8	2200	22	4	37	10000	8	1900	140	< 1.5	50	< 1	16	21	25
		14742	10 - 20	8700	< 0.8	< 5	28	< 0.8	2100	21	4	21	11000	5	1800	160	< 1.5	36	< 1	16	21	22
		14743	10 - 20	8400	< 0.8	< 5	29	< 0.8	2000	20	4	18	11000	5	1600	170	< 1.5	33	< 1	15	21	23

Table F (results in bold)	NG	1.0	14	190	1.0	NG	67	19	56	NG	55	NG	NG	2.5	43	1.4	NG	91	150
Table A (results in bold and underlined)	NG	13	20	750	12.0	NG	750	40	225	NG	200	NG	NG	5.0	150	10	NG	200	600
< - less than the Method Detection Limit. All beryllium (Be) results were <0.5 µg/g. NG - no guideline.																			

Table B4.1: Concentration of 19 Elements in Soil in µg/g Collected on 105 School Properties in the Sudbury Area in the Summer of 2001																						
Map ID	Station	Sample Number	Soil Depth	Al	Sb	As	Ba	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Mo	Ni	Se	Sr	V	Zn
Pinecrest Public School - Rainbow District School Board,1650 Dominion Drive,Sudbury																						
Area A grass	5037318	14661	0 - 5	12000	< 0.8	6	34	< 0.8	9000	27	5	40	13000	12	2200	150	< 1.5	54	< 1	36	28	26
		14662	0 - 5	12000	< 0.8	< 5	36	< 0.8	3800	27	4	37	13000	9	2000	140	< 1.5	44	< 1	34	28	24
		14663	5 - 10	11000	< 0.8	6	31	< 0.8	4700	26	5	39	12000	11	2000	140	< 1.5	52	< 1	27	26	29
		14664	5 - 10	12000	< 0.8	5	35	< 0.8	4100	27	5	31	13000	9	2000	140	< 1.5	45	< 1	31	27	24
Area B soil	5037319	14669	0 - 5	11000	< 0.8	5	29	< 0.8	2400	27	4	38	13000	14	2100	130	< 1.5	41	< 1	22	26	34
Area C sand	5037320	14666	0 - 15	5000	< 0.8	< 5	20	< 0.8	3400	25	7	12	12000	3	3200	160	< 1.5	17	< 1	20	28	15
Area D gravel	5037321	14667	0 - 5	11000	< 0.8	5	49	< 0.8	4600	46	16	81	22000	11	6600	300	< 1.5	130	< 1	35	44	42
		14668	0 - 5	11000	< 0.8	< 5	49	< 0.8	4300	46	15	83	23000	10	6600	300	< 1.5	120	< 1	34	45	41
Area E soil	5030971	14665	0 - 5	11000	< 0.8	5	31	< 0.8	3700	28	5	35	13000	10	2100	150	< 1.5	49	< 1	29	27	33
Pius X-Sudbury Catholic District School Board,44 3 rd Ave,Sudbury																						
Area A gravel	5037148	14297	0 - 5	6500	< 0.8	< 5	35	< 0.8	3800	32	11	52	13000	8	4200	200	< 1.5	59	< 1	29	30	28
		14298	0 - 5	7600	< 0.8	< 5	33	< 0.8	3800	33	9	51	15000	7	4100	200	< 1.5	53	< 1	30	31	27
Princess Anne Public School - Rainbow District School Board,500 Douglas Street,Sudbury																						
Area A gravel	5037106	14134	0 - 5	7800	< 0.8	6	34	< 0.8	2800	35	17	220	18000	18	4800	190	< 1.5	200	2	26	30	28
		14135	0 - 5	7800	< 0.8	6	31	< 0.8	2800	32	13	200	18000	13	4800	190	< 1.5	170	< 1	24	29	25
Area B grass	5037107	14136	0 - 5	10000	< 0.8	7	46	< 0.8	5700	39	11	200	15000	43	3100	200	< 1.5	280	< 1	40	31	33
		14137	0 - 5	11000	< 0.8	7	45	< 0.8	6200	35	13	240	19000	21	3100	190	< 1.5	300	2	32	31	37
		14139	5 - 10	10000	< 0.8	8	56	< 0.8	5800	38	13	240	16000	17	3200	240	< 1.5	370	1	35	33	38
		14140	10 - 20	8100	< 0.8	5	41	< 0.8	4000	29	8	120	13000	10	2900	180	< 1.5	170	< 1	27	27	27
Area C sand	5037108	14138	0 - 15	7100	< 0.8	< 5	23	< 0.8	3500	31	8	36	15000	4	4300	190	< 1.5	34	< 1	28	31	22
Queen Elizabeth II Public School - Rainbow District School Board,32 Dell Street,Sudbury																						
Area A grass	5037119	14269	0 - 5	9600	< 0.8	7	35	< 0.8	3800	29	8	120	13000	15	2000	200	< 1.5	120	< 1	34	29	28
		14270	0 - 5	9800	< 0.8	9	37	< 0.8	4500	25	8	130	13000	17	2300	200	< 1.5	130	< 1	34	28	29
		14271	5 - 10	10000	< 0.8	7	34	< 0.8	4000	25	7	92	13000	12	2200	220	< 1.5	99	< 1	31	28	26
		14272	5 - 10	9700	< 0.8	6	33	< 0.8	3600	25	6	73	12000	9	2200	180	< 1.5	83	< 1	28	28	25
		14280	10 - 20	11000	< 0.8	6	35	< 0.8	3100	27	6	43	13000	7	2400	200	< 1.5	54	< 1	33	31	24
		14281	10 - 20	10000	< 0.8	< 5	32	< 0.8	2800	28	6	49	13000	7	2100	190	< 1.5	61	< 1	24	27	23

Table F (results in bold)	NG	1.0	14	190	1.0	NG	67	19	56	NG	55	NG	NG	2.5	43	1.4	NG	91	150
Table A (results in bold and underlined)	NG	13	20	750	12.0	NG	750	40	225	NG	200	NG	NG	5.0	150	10	NG	200	600
< - less than the Method Detection Limit. All beryllium (Be) results were < 0.5 µg/g. NG - no guideline.																			

Table B4.1: Concentration of 19 Elements in Soil in $\mu\text{g/g}$ Collected on 105 School Properties in the Sudbury Area in the Summer of 2001

Map ID	Station	Sample Number	Soil Depth	Al	Sb	As	Ba	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Mo	Ni	Se	Sr	V	Zn
Area B soil	5037120	14273	0 - 5	8900	< 0.8	8	30	< 0.8	3500	24	5	45	12000	9	2300	160	< 1.5	63	< 1	30	27	22
Area C soil	5037121	14274	0 - 5	9000	< 0.8	6	37	< 0.8	5400	27	7	100	12000	14	2400	190	< 1.5	120	< 1	31	28	26
Area D sand	5037122	14275	0 - 15	6800	< 0.8	< 5	20	< 0.8	3400	31	7	32	16000	3	4000	190	< 1.5	37	< 1	27	33	42
		14276	0 - 15	6900	< 0.8	6	20	< 0.8	3200	27	7	23	14000	3	4200	190	< 1.5	26	< 1	26	29	22
Area E sand	5037123	14277	0 - 15	5500	< 0.8	< 5	20	< 0.8	2800	25	7	26	13000	3	3600	160	< 1.5	34	< 1	21	29	17
Area F gravel	5037124	14282	0 - 5	6700	< 0.8	7	36	0.8	5400	32	16	210	15000	19	4500	210	< 1.5	240	1	27	30	38
		14283	0 - 5	7300	< 0.8	8	39	< 0.8	4400	31	17	260	17000	26	4600	190	< 1.5	270	< 1	27	29	58
Area G gravel	5037125	14278	0 - 5	7000	< 0.8	7	34	< 0.8	4000	29	16	210	16000	23	4500	190	< 1.5	240	< 1	30	31	110
Area H gravel	5037126	14279	0 - 5	8100	< 0.8	9	40	1	9600	29	20	300	16000	30	7600	210	< 1.5	370	1	33	29	65
R. Murray Public School - Rainbow District School Board, 3 Henry Street, Wtefish																						
Area A grass	5037409	14744	0 - 5	11000	< 0.8	< 5	62	< 0.8	5000	23	5	24	14000	11	3400	270	< 1.5	32	< 1	24	29	45
		14745	0 - 5	13000	< 0.8	< 5	74	< 0.8	5900	27	6	29	16000	13	3800	300	< 1.5	37	< 1	27	31	53
Area B soil	5037410	14746	0 - 5	17000	< 0.8	< 5	81	< 0.8	5200	37	6	22	19000	9	4500	300	< 1.5	27	< 1	33	38	47
Area C soil	5037411	14747	0 - 5	8800	< 0.8	< 5	31	< 0.8	4400	31	6	16	16000	3	4200	190	< 1.5	17	< 1	35	31	19
R. Beattie Public School - Rainbow District School Board, 102 Loach's Road, Sudbury																						
Area A sand	5037032	14072	0 - 15	7200	< 0.8	< 5	23	< 0.8	3400	31	7	23	16000	3	4200	190	< 1.5	25	< 1	27	32	17
		14073	0 - 15	6000	< 0.8	< 5	21	< 0.8	2600	28	7	24	15000	3	4000	180	< 1.5	27	< 1	20	28	16
Area B sand	5037033	14074	0 - 15	6200	< 0.8	< 5	20	< 0.8	2800	30	7	25	14000	3	3900	170	< 1.5	28	< 1	22	29	17
		14075	0 - 15	6300	< 0.8	< 5	20	< 0.8	2800	30	6	21	15000	3	4000	170	< 1.5	23	< 1	23	28	17
Area C grass	5037034	14068	0 - 5	11000	< 0.8	< 5	42	< 0.8	7100	33	7	77	15000	13	3100	230	< 1.5	97	< 1	45	32	31
		14069	0 - 5	11000	< 0.8	< 5	42	< 0.8	7500	32	7	83	15000	13	3300	240	< 1.5	100	< 1	45	32	31
Area D soil	5037035	14071	0 - 5	11000	0.9	< 5	52	< 0.8	6700	36	8	87	15000	15	3700	230	< 1.5	110	< 1	43	32	36
Area E soil	5037036	14070	0 - 5	11000	< 0.8	< 5	54	< 0.8	6100	33	7	61	15000	11	3300	230	< 1.5	84	< 1	44	33	51
Area F gravel	5037037	14076	0 - 5	6800	< 0.8	< 5	27	< 0.8	2900	32	9	82	15000	11	3800	170	< 1.5	82	< 1	26	28	27

Table F (results in bold)	NG	1.0	14	190	1.0	NG	67	19	56	NG	55	NG	NG	2.5	43	1.4	NG	91	150
Table A (results in bold and underlined)	NG	13	20	750	12.0	NG	750	40	225	NG	200	NG	NG	5.0	150	10	NG	200	600
< - less than the Method Detection Limit. All beryllium (Be) results were <0.5 $\mu\text{g/g}$. NG - no guideline.																			

Table B4.1: Concentration of 19 Elements in Soil in µg/g Collected on 105 School Properties in the Sudbury Area in the Summer of 2001																						
Map ID	Station	Sample Number	Soil Depth	Al	Sb	As	Ba	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Mo	Ni	Se	Sr	V	Zn
Area G sand	5037038	14077	0 - 15	7100	< 0.8	< 5	22	< 0.8	3300	29	7	19	14000	3	4000	180	< 1.5	21	< 1	28	28	16
Edwood Acres Public School - Rainbow District School Board, 4625 Carl Street, Hammer																						
Area A grass	5037332	14612	0 - 5	9900	< 0.8	< 5	32	< 0.8	3000	26	4	21	12000	15	2000	150	< 1.5	34	1	27	26	21
		14613	0 - 5	9700	< 0.8	< 5	31	< 0.8	3200	26	5	25	12000	43	2200	150	< 1.5	40	< 1	24	25	22
		14614	5 - 10	9400	< 0.8	< 5	29	< 0.8	2200	25	4	24	12000	8	1800	140	< 1.5	32	< 1	19	25	19
		14615	5 - 10	9100	< 0.8	< 5	28	< 0.8	2000	24	4	22	11000	7	1700	140	< 1.5	31	< 1	16	24	19
Area B soil	5037333	14607	0 - 5	9100	< 0.8	< 5	28	< 0.8	2100	25	5	20	11000	9	2100	120	< 1.5	32	< 1	16	24	21
Area C soil	5037334	14608	0 - 5	9200	< 0.8	< 5	27	< 0.8	3000	26	4	21	11000	7	1900	130	< 1.5	36	< 1	27	25	27
Area D soil	5037335	14609	0 - 5	8100	< 0.8	< 5	35	< 0.8	3200	34	10	44	17000	7	5100	220	< 1.5	40	< 1	24	35	31
Area E soil	5037336	14610	0 - 5	8400	< 0.8	6	35	< 0.8	3300	32	10	43	17000	6	4700	220	< 1.5	41	< 1	25	33	27
Area F sand	5037337	14611	0 - 15	5100	< 0.8	< 5	20	< 0.8	4000	23	6	15	13000	3	3300	170	< 1.5	16	< 1	19	29	20
Area G grass	5037338	14616	0 - 5	8700	< 0.8	7	31	< 0.8	28000	24	5	54	11000	18	3300	140	< 1.5	72	< 1	38	23	24
		14617	0 - 5	9200	< 0.8	6	30	< 0.8	3800	27	4	43	11000	11	1900	160	< 1.5	52	< 1	28	26	24
		14618	5 - 10	8600	< 0.8	< 5	30	< 0.8	3300	25	4	27	11000	7	2000	160	< 1.5	44	< 1	21	24	21
		14619	5 - 10	7200	< 0.8	< 5	25	< 0.8	2300	23	4	18	9500	5	1900	130	< 1.5	32	< 1	14	21	18
		14620	10 - 20	8500	< 0.8	< 5	24	< 0.8	3100	23	4	13	11000	4	1800	150	< 1.5	23	< 1	15	22	17
		14621	10 - 20	7100	< 0.8	< 5	22	< 0.8	1900	22	4	15	10000	4	1900	130	< 1.5	22	< 1	12	23	14
Robert Mack Public School - Rainbow District School Board, 7 Margaret Street, Garson																						
Area A grass	5037272	14420	0 - 5	7400	< 0.8	9	33	< 0.8	3000	24	5	51	11000	10	2200	160	< 1.5	54	< 1	18	24	29
		14421	0 - 5	9300	< 0.8	9	38	< 0.8	4600	30	6	51	13000	14	2800	190	< 1.5	69	< 1	32	29	33
		14426	5 - 10	8500	< 0.8	15	32	< 0.8	2000	21	4	71	11000	9	1500	140	< 1.5	47	< 1	24	26	22
		14427	10 - 20	8200	< 0.8	8	31	< 0.8	1900	21	5	18	10000	7	1700	160	< 1.5	41	< 1	22	24	23
Area B soil	5037273	14422	0 - 5	8800	< 0.8	< 5	35	< 0.8	2400	29	6	26	13000	6	2800	170	< 1.5	41	< 1	24	28	70
		14423	0 - 5	8400	< 0.8	< 5	32	< 0.8	2400	28	6	23	13000	5	2600	160	< 1.5	35	< 1	27	29	29
Area C gravel	5037274	14424	0 - 5	7200	< 0.8	7	34	< 0.8	3500	32	15	45	17000	6	4200	200	< 1.5	56	< 1	27	33	29
		14425	0 - 5	7100	< 0.8	6	34	< 0.8	3400	32	15	61	17000	6	4000	180	< 1.5	61	< 1	27	31	30

Table F (results in bold)	NG	1.0	14	190	1.0	NG	67	19	56	NG	55	NG	NG	2.5	43	1.4	NG	91	150
Table A (results in bold and underlined)	NG	13	20	750	12.0	NG	750	40	225	NG	200	NG	NG	5.0	150	10	NG	200	600
< - less than the Method Detection Limit. All beryllium (Be) results were < 0.5 µg/g. NG - no guideline.																			

Table B4.1: Concentration of 19 Elements in Soil in µg/g Collected on 105 School Properties in the Sudbury Area in the Summer of 2001																						
Map ID	Station	Sample Number	Soil Depth	Al	Sb	As	Ba	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Mo	Ni	Se	Sr	V	Zn
Sacred Heart (formerly)-Sudbury Catholic District School Board,1169 Dollard Avenue,Sudbury																						
Area A gravel	5037219	14365	0 - 5	5000	< 0.8	< 5	23	< 0.8	2300	27	12	62	15000	9	3400	160	< 1.5	76	< 1	17	29	44
		14366	0 - 5	5200	< 0.8	< 5	29	< 0.8	3200	26	11	72	15000	16	4000	170	< 1.5	90	< 1	18	28	52
St. Andrew -Sudbury Catholic District School Board,1305 Highland Road,Sudbury																						
Area A gravel	5037212	14341	0 - 5	6500	< 0.8	< 5	27	< 0.8	2700	28	10	91	15000	12	3700	170	< 1.5	93	< 1	23	30	30
		14342	0 - 5	6700	< 0.8	< 5	24	< 0.8	2600	30	11	100	16000	15	3900	180	< 1.5	100	< 1	20	30	36
Area B sand	5037213	14343	0 - 15	4900	< 0.8	< 5	19	< 0.8	2600	23	6	20	13000	3	3000	150	< 1.5	29	< 1	17	28	16
Area C soil	5037214	14344	0 - 5	9900	< 0.8	8	44	< 0.8	3400	33	15	160	22000	20	4700	240	< 1.5	170	< 1	29	39	40
		14345	0 - 5	9300	< 0.8	8	42	< 0.8	3400	32	16	160	21000	20	4400	220	< 1.5	160	< 1	28	32	38
St. Anne -Sudbury Catholic District School Board,539 Francis Street,Thunder Bay																						
Area A sand	5037347	14637	0 - 15	5400	< 0.8	< 5	21	< 0.8	2900	32	6	17	15000	4	3800	190	< 1.5	22	< 1	22	38	25
Area B gravel	5037348	14638	0 - 5	5500	< 0.8	< 5	23	< 0.8	3300	30	7	29	13000	7	4200	190	< 1.5	34	< 1	25	32	32
		14639	0 - 5	5900	< 0.8	< 5	23	< 0.8	3200	31	7	29	15000	8	4500	180	< 1.5	35	< 1	22	31	35
Area C gravel	5037349	14640	0 - 5	4100	< 0.8	< 5	27	< 0.8	15000	19	5	13	9500	3	5500	140	< 1.5	17	< 1	54	22	15
Area D grass	5037350	14641	0 - 5	8200	< 0.8	< 5	32	< 0.8	4800	25	4	22	11000	7	2500	180	< 1.5	33	< 1	34	25	30
		14642	0 - 5	9800	< 0.8	< 5	34	< 0.8	4800	27	5	26	12000	8	2200	200	< 1.5	37	< 1	34	29	34
		14643	5 - 10	10000	< 0.8	< 5	32	< 0.8	4100	26	5	20	12000	7	2200	190	< 1.5	32	< 1	32	27	23
St. Anthony -Sudbury Catholic District School Board,11 Mary Street,Sudbury																						
Area A gravel	5037103	14205	0 - 5	8400	< 0.8	6	39	< 0.8	4100	36	20	310	19000	15	4900	210	< 1.5	290	2	30	33	40
		14206	0 - 5	7500	0.9	5	35	< 0.8	3500	34	17	270	17000	13	4500	200	4.3	260	1.6	28	32	32
Area B sand	5037104	14207	0 - 15	8600	< 0.8	6	29	< 0.8	3800	40	11	86	21000	6	6000	240	< 1.5	77	< 1	28	42	27
St. Augustin -Le Conseil Scolaire Catholique du Nouvel Ontario, 648 Promenade Ouellet,Thunder Bay																						
Area A sand	5037269	14432	0 - 15	7100	< 0.8	6	37	< 0.8	3600	25	7	21	13000	4	3400	180	< 1.5	21	< 1	25	27	18
		14433	0 - 15	5600	< 0.8	7	27	< 0.8	3400	22	7	22	12000	4	3300	170	< 1.5	22	< 1	20	25	17
Area B gravel	5037270	14434	0 - 5	6300	< 0.8	6	29	< 0.8	3400	27	8	44	13000	8	3400	170	< 1.5	50	< 1	25	26	24
		14435	0 - 5	6200	< 0.8	7	28	< 0.8	3100	27	8	44	13000	9	3500	170	< 1.5	51	< 1	25	28	23
Area C gravel	5037271	14436	0 - 5	8600	< 0.8	9	38	< 0.8	3000	29	7	57	14000	12	3300	180	< 1.5	56	< 1	30	32	20
		14437	0 - 5	8800	< 0.8	9	40	< 0.8	3000	30	7	71	14000	14	3300	180	< 1.5	67	< 1	30	30	22

Table F (results in bold)	NG	1.0	14	190	1.0	NG	67	19	56	NG	55	NG	NG	2.5	43	1.4	NG	91	150
Table A (results in bold and underlined)	NG	13	20	750	12.0	NG	750	40	225	NG	200	NG	NG	5.0	150	10	NG	200	600
< - less than the Method Detection Limit. All beryllium (Be) results were <0.5 µg/g. NG - no guideline.																			

Table B4.1: Concentration of 19 Elements in Soil in µg/g Collected on 105 School Properties in the Sudbury Area in the Summer of 2001																						
Map ID	Station	Sample Number	Soil Depth	Al	Sb	As	Ba	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Mo	Ni	Se	Sr	V	Zn
St. Benedict Secondary -Sudbury Catholic District School Board,2993 Algonquin Road,Sudbury																						
Area A grass	5037023	14058	0 - 5	9300	< 0.8	< 5	32	< 0.8	3800	29	6	29	13000	7	2900	180	< 1.5	46	< 1	29	29	19
		14059	0 - 5	7600	< 0.8	< 5	29	< 0.8	2900	25	5	26	11000	6	2400	140	< 1.5	40	< 1	19	23	17
Area B soil	5037024	14060	0 - 5	7600	< 0.8	< 5	29	< 0.8	5500	22	4	25	9700	7	2400	150	< 1.5	30	< 1	34	24	17
		14061	0 - 5	7000	< 0.8	< 5	28	< 0.8	5200	22	4	19	9500	7	2400	150	< 1.5	31	< 1	31	24	15
Area C soil	5037025	14062	0 - 5	10000	< 0.8	< 5	32	< 0.8	2200	28	6	25	14000	4	2400	130	< 1.5	40	< 1	26	30	16
		14063	0 - 5	11000	< 0.8	< 5	36	< 0.8	2900	30	6	24	15000	4	2400	140	< 1.5	39	< 1	34	33	16
St. Bernadette -Sudbury Catholic District School Board,870 Auger Avenue,Sudbury																						
Area A gravel	5037164	14444	0 - 5	6800	< 0.8	8	30	< 0.8	2300	28	11	86	17000	16	3800	190	< 1.5	93	< 1	19	32	24
		14445	0 - 5	6000	< 0.8	8	26	< 0.8	2000	26	11	81	16000	15	3800	180	< 1.5	85	< 1	15	29	24
Area B gravel	5037165	14446	0 - 5	5500	< 0.8	7	28	< 0.8	2100	28	21	100	18000	11	3800	190	< 1.5	100	< 1	13	26	32
		14447	0 - 5	5300	< 0.8	< 5	23	< 0.8	2400	29	26	79	21000	10	3700	160	< 1.5	91	< 1	16	28	33
St. Charles -Sudbury Catholic District School Board,26 Charlotte Street,Chelmsford																						
Area A gravel	5037394	14520	0 - 5	5900	< 0.8	< 5	25	< 0.8	3300	27	7	35	14000	6	3800	210	< 1.5	59	< 1	24	30	25
		14521	0 - 5	6300	< 0.8	< 5	25	< 0.8	3700	26	7	44	15000	6	4100	190	< 1.5	63	< 1	27	31	27
Area B sand	5037395	14522	0 - 15	4000	< 0.8	< 5	13	< 0.8	2100	24	4	11	10000	3	2500	130	< 1.5	13	< 1	15	24	21
St. Charles College -Sudbury Catholic District School Board,1940 Hawthorne Drive,Sudbury																						
Area A grass	5037160	14438	0 - 5	8700	2.1	6	38	< 0.8	4800	30	7	67	12000	130	2800	170	< 1.5	86	< 1	29	25	29
		14439	0 - 5	9000	1.6	6	46	< 0.8	6100	30	6	67	12000	92	2700	180	< 1.5	85	< 1	31	25	29
Area B soil	5037162	14442	0 - 5	9000	0.8	5	34	< 0.8	6100	31	6	41	13000	24	3500	210	< 1.5	59	< 1	32	27	26
Area C grass	5037161	14440	0 - 5	7900	< 0.8	8	31	< 0.8	3100	30	6	89	10000	49	1600	120	< 1.5	100	< 1	22	22	24
		14441	0 - 5	6900	< 0.8	7	34	< 0.8	3700	45	7	93	9700	120	1700	130	< 1.5	120	< 1	23	21	28
Area D soil	5037163	14443	0 - 5	10000	< 0.8	5	45	< 0.8	3100	38	8	43	17000	13	3900	230	< 1.5	69	< 1	25	32	28
St. Christopher -Sudbury Catholic District School Board,2843 Cedar Road,Sudbury																						
Area A sand	5037013	14052	0 - 15	10000	< 0.8	< 5	25	< 0.8	3300	53	8	23	16000	30	5100	200	4.1	25	< 1	26	48	110
		14053	0 - 15	10000	< 0.8	< 5	24	< 0.8	3400	32	9	23	17000	3	4500	190	< 1.5	22	< 1	28	33	19
Area B gravel	5037014	14054	0 - 5	12000	< 0.8	< 5	39	< 0.8	5700	36	8	27	20000	8	5400	260	< 1.5	35	< 1	39	41	30
		14055	0 - 5	11000	< 0.8	< 5	38	< 0.8	5700	38	7	26	20000	7	5400	270	< 1.5	37	< 1	37	41	29

Table F (results in bold)	NG	1.0	14	190	1.0	NG	67	19	56	NG	55	NG	NG	2.5	43	1.4	NG	91	150
Table A (results in bold and underlined)	NG	13	20	750	12.0	NG	750	40	225	NG	200	NG	NG	5.0	150	10	NG	200	600
< - less than the Method Detection Limit. All beryllium (Be) results were <0.5 µg/g. NG - no guideline.																			

Table B4.1: Concentration of 19 Elements in Soil in µg/g Collected on 105 School Properties in the Sudbury Area in the Summer of 2001

Map ID	Station	Sample Number	Soil Depth	Al	Sb	As	Ba	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Mo	Ni	Se	Sr	V	Zn
Area C grass	5037015	14056	0 - 5	9500	< 0.8	< 5	40	< 0.8	3600	33	7	23	16000	4	3900	210	< 1.5	30	< 1	31	32	19
		14057	0 - 5	9400	< 0.8	< 5	40	< 0.8	3700	31	7	25	16000	5	3900	210	< 1.5	34	< 1	31	32	20
St. David -Sudbury Catholic District School Board,350 éan Street,Sudbury																						
Area A gravel	5037118	14267	0 - 5	4600	< 0.8	< 5	18	< 0.8	2900	20	6	18	11000	3	3200	140	< 1.5	27	< 1	18	24	17
		14268	0 - 5	6000	< 0.8	< 5	29	< 0.8	3200	28	13	88	15000	8	4000	170	< 1.5	92	< 1	24	30	42
St. Denis -Le Conseil Scolai re Catholique du Nouvel -O tario,347 Be Mand,Sudbury																						
Area A grass	5037074	14149	0 - 5	9500	< 0.8	< 5	36	< 0.8	2600	26	8	200	13000	25	1900	180	< 1.5	150	< 1	24	25	65
		14150	0 - 5	10000	< 0.8	< 5	45	< 0.8	3500	26	9	180	13000	23	2100	200	< 1.5	160	2	34	27	130
		14151	5 - 10	11000	< 0.8	< 5	39	< 0.8	2900	24	5	52	12000	9	1700	210	< 1.5	67	1	30	26	42
		14152	5 - 10	12000	< 0.8	< 5	39	< 0.8	3000	26	5	41	13000	9	1800	220	< 1.5	60	< 1	35	27	31
		14153	10 - 20	9100	< 0.8	< 5	41	< 0.8	3300	24	6	49	12000	10	2200	210	< 1.5	74	< 1	28	25	28
		14154	10 - 20	11000	< 0.8	< 5	41	< 0.8	3000	24	5	36	12000	9	1800	220	< 1.5	60	< 1	34	27	33
Area B gravel	5037075	14155	0 - 5	6600	< 0.8	< 5	28	< 0.8	3300	31	12	71	17000	7	4200	180	< 1.5	72	< 1	26	31	29
		14156	0 - 5	6200	< 0.8	< 5	26	< 0.8	3000	30	14	87	16000	10	4400	180	< 1.5	91	< 1	23	28	31
Area C sand	5037076	14157	0 - 15	5500	< 0.8	< 5	18	< 0.8	2200	28	9	34	14000	4	4200	160	< 1.5	37	< 1	16	26	23
		14158	0 - 15	5800	< 0.8	< 5	18	< 0.8	2400	29	8	29	15000	3	4200	170	< 1.5	32	< 1	18	27	25
St. Dominique -Le Conseil Scol arie Catholique du Nouvel -O tario,2096 Be Montfort,Sudbury																						
Area A grass	5037155	14381	0 - 5	8000	< 0.8	< 5	46	< 0.8	3000	27	11	74	13000	19	3400	200	< 1.5	110	< 1	23	27	28
		14382	0 - 5	8400	< 0.8	< 5	49	< 0.8	2900	28	13	77	14000	21	3600	200	< 1.5	120	< 1	22	27	30
		14389	5 - 10	5400	< 0.8	< 5	20	< 0.8	1900	24	6	14	13000	2	3100	160	< 1.5	23	< 1	18	28	15
		14390	5 - 10	5500	< 0.8	< 5	23	< 0.8	1700	27	6	16	14000	3	2700	160	< 1.5	24	< 1	19	34	16
Area B sand	5037156	14383	0 - 15	9500	< 0.8	8	47	< 0.8	3300	34	16	170	20000	21	5200	240	< 1.5	190	1	33	36	40
Area C grass	5037157	14385	0 - 5	10000	< 0.8	5	43	< 0.8	9900	32	8	110	14000	18	3400	270	< 1.5	130	1	45	29	33
		14386	0 - 5	11000	< 0.8	< 5	42	< 0.8	7300	32	7	100	14000	12	3100	220	< 1.5	77	< 1	43	31	27
Area D gravel	5037158	14387	0 - 5	12000	< 0.8	5	41	< 0.8	7600	34	7	50	15000	11	5400	210	< 1.5	73	< 1	49	33	26
		14388	0 - 5	11000	< 0.8	< 5	35	< 0.8	8300	34	7	55	15000	11	3300	230	< 1.5	78	< 1	48	32	27
Area E gravel	5037159	14384	0 - 5	7700	< 0.8	8	37	< 0.8	3100	31	16	170	18000	23	4400	220	< 1.5	170	1	26	33	36
St. Etienne -Le Conseil Scolaire Catholique du N ouvel -O tario,C.P. 310,79 Be hule,Dowling																						
Area A gravel	5037400	14554	0 - 5	9000	< 0.8	< 5	28	< 0.8	3900	33	9	42	21000	20	5600	240	< 1.5	35	< 1	31	42	35
		14555	0 - 5	9000	< 0.8	< 5	29	< 0.8	3700	34	9	41	21000	16	5700	250	< 1.5	34	< 1	28	42	37

Table F (results in bold)	NG	1.0	14	190	1.0	NG	67	19	56	NG	55	NG	NG	2.5	43	1.4	NG	91	150
Table A (results in bold and underlined)	NG	13	20	750	12.0	NG	750	40	225	NG	200	NG	NG	5.0	150	10	NG	200	600
< - less than the Method Detection Limit. All beryllium (Be) results were <0.5 µg/g. NG - no guideline.																			

Table B4.1: Concentration of 19 Elements in Soil in µg/g Collected on 105 School Properties in the Sudbury Area in the Summer of 2001

Map ID	Station	Sample Number	Soil Depth	Al	Sb	As	Ba	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Mo	Ni	Se	Sr	V	Zn
Area B sand	5037401	14556	0 - 15	6700	< 0.8	< 5	21	< 0.8	4000	36	7	23	18000	5	4400	210	< 1.5	21	< 1	28	38	28
St. Francis -Sudbury Catholic District School Board,691 Lilac Street,Sudbury																						
Area A gravel	5037069	14141	0 - 5	5400	< 0.8	< 5	24	< 0.8	2600	31	12	140	15000	15	3800	150	< 1.5	150	< 1	19	27	40
		14142	0 - 5	5800	< 0.8	< 5	25	< 0.8	2700	30	13	160	15000	15	3900	150	< 1.5	150	< 1	20	26	40
Area B sand	5037070	14143	0 - 15	6900	< 0.8	< 5	21	< 0.8	3200	32	8	30	17000	4	4500	190	< 1.5	32	< 1	22	34	21
Area C gravel	5037071	14144	0 - 5	7400	< 0.8	< 5	39	< 0.8	4000	35	13	140	16000	10	4800	190	< 1.5	130	< 1	24	29	56
		14145	0 - 5	7600	< 0.8	< 5	39	< 0.8	4100	38	15	180	17000	15	4700	200	< 1.5	170	< 1	26	32	110
St. Gabriel (Better Beginnings) -Le Conseil Scolaire Catholique du Nouvel -Ontario,450 Morin Street,Sudbury																						
Area A gravel	5037127	14284	0 - 5	7400	< 0.8	7	31	< 0.8	3500	34	20	190	20000	19	4400	200	< 1.5	180	< 1	25	34	41
		14285	0 - 5	7100	< 0.8	6	31	< 0.8	3400	31	21	200	19000	21	4200	190	< 1.5	200	< 1	26	31	47
Area B sand	5037128	14286	0 - 15	5400	< 0.8	5	27	< 0.8	2500	23	8	25	14000	3	3400	190	< 1.5	23	< 1	18	33	16
		14287	0 - 15	4900	< 0.8	< 5	23	< 0.8	2100	20	8	22	13000	3	3200	170	< 1.5	22	< 1	15	26	15
St. James -Sudbury Catholic District School Board,280 Anderson Drive,Lively																						
Area A gravel	5037244	14719	0 - 5	8100	< 0.8	5	30	< 0.8	3600	32	11	64	15000	9	4500	250	< 1.5	70	< 1	23	31	34
		14720	0 - 5	6300	< 0.8	< 5	30	< 0.8	2500	29	10	48	14000	7	4100	250	< 1.5	47	< 1	17	32	30
St. Jean (formerly) -Le Conseil Scolaire Catholique du Nouvel -Ontario,1127 Promenade Bancroft,Sudbury																						
Area A gravel	5037139	14292	0 - 5	9400	< 0.8	6	35	< 0.8	4200	46	14	140	20000	18	5600	250	1.9	140	1	32	41	49
		14293	0 - 5	7200	< 0.8	7	30	< 0.8	3400	35	15	160	17000	17	4300	180	< 1.5	180	< 1	26	31	36
Area B sand	5037140	14294	0 - 15	5100	< 0.8	6	22	< 0.8	2900	27	6	34	12000	4	2900	150	< 1.5	37	< 1	21	26	24
St. John -Sudbury Catholic District School Board,181 Miami Street,Garson																						
Area A gravel	5037276	14415	0 - 5	6700	< 0.8	8	27	< 0.8	2700	27	8	57	14000	10	3000	170	< 1.5	68	< 1	22	29	28
		14416	0 - 5	6300	< 0.8	9	25	< 0.8	2700	26	9	59	14000	10	3200	170	< 1.5	73	< 1	22	30	28
Area B gravel	5037277	14417	0 - 5	6000	< 0.8	7	29	< 0.8	2500	24	7	43	11000	7	2800	150	< 1.5	62	< 1	18	26	25
		14418	0 - 5	5800	< 0.8	6	29	< 0.8	2600	24	8	51	12000	7	2900	160	< 1.5	71	< 1	19	24	24

Table F (results in bold)	NG	1.0	14	190	1.0	NG	67	19	56	NG	55	NG	NG	2.5	43	1.4	NG	91	150
Table A (results in bold and underlined)	NG	13	20	750	12.0	NG	750	40	225	NG	200	NG	NG	5.0	150	10	NG	200	600
< - less than the Method Detection Limit. All beryllium (Be) results were <0.5 µg/g. NG - no guideline.																			

Table B4.1: Concentration of 19 Elements in Soil in µg/g Collected on 105 School Properties in the Sudbury Area in the Summer of 2001

Map ID	Station	Sample Number	Soil Depth	Al	Sb	As	Ba	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Mo	Ni	Se	Sr	V	Zn
Area C sand	5037278	14419	0 - 15	4100	< 0.8	< 5	19	< 0.8	3400	20	5	12	9900	2	2600	130	< 1.5	18	< 1	15	23	16
St. Joseph -Le Conseil Scolaire Catholique du Nouvel-Etatario,100 Bruyere Street,Sudbury																						
Area A sand	5037129	14288	0 - 15	5800	< 0.8	< 5	21	< 0.8	2700	25	7	28	14000	3	3600	170	< 1.5	22	< 1	20	27	18
		14289	0 - 15	5800	< 0.8	< 5	19	< 0.8	2300	26	8	23	14000	3	3300	170	< 1.5	23	< 1	18	27	16
Area B gravel	5037130	14290	0 - 5	6700	< 0.8	5	32	< 0.8	3500	34	16	170	18000	21	4300	200	< 1.5	170	< 1	23	33	38
		14291	0 - 5	6600	< 0.8	6	31	< 0.8	3200	33	22	170	18000	22	4200	190	< 1.5	190	< 1	31	32	36
St. Joseph -Le Conseil Scolaire Catholique du Nouvel-Etatario,1215 Be St. Anthony,Hammer																						
Area A gravel	5037309	14651	0 - 5	7100	< 0.8	6	35	< 0.8	3100	31	15	49	19000	9	4300	200	< 1.5	49	< 1	24	34	33
		14652	0 - 5	5600	< 0.8	< 5	26	< 0.8	2200	27	15	38	16000	9	3800	160	< 1.5	45	< 1	16	28	29
Area B sand	5037310	14653	0 - 15	8700	< 0.8	< 5	41	< 0.8	2900	46	9	43	22000	6	5200	250	< 1.5	35	< 1	18	51	29
Area C grass	5037311	14654	0 - 5	7100	< 0.8	< 5	37	< 0.8	2900	28	8	53	14000	10	3700	200	< 1.5	59	< 1	21	30	26
		14655	0 - 5	8700	< 0.8	< 5	46	< 0.8	3600	31	11	52	17000	11	4200	210	< 1.5	55	< 1	29	32	31
St. Joseph -Le Conseil Scolaire Catholique du Nouvel-Etatario,3634 Avenue Errington,Chelmsford																						
Area A grass	5037396	14544	0 - 5	7700	< 0.8	< 5	20	< 0.8	2400	22	4	22	11000	10	1600	120	< 1.5	30	< 1	25	26	18
		14545	0 - 5	6800	< 0.8	< 5	19	< 0.8	2100	20	3	26	10000	10	1500	110	< 1.5	33	< 1	21	23	20
		14546	5 - 10	6900	< 0.8	< 5	20	< 0.8	1800	20	3	11	9200	6	1400	100	< 1.5	21	< 1	18	21	15
		14547	5 - 10	7500	< 0.8	< 5	20	< 0.8	2100	20	3	18	11000	9	1500	110	< 1.5	27	< 1	22	25	18
		14548	10 - 20	7800	< 0.8	< 5	18	< 0.8	2000	21	3	4	10000	4	1700	98	< 1.5	13	< 1	19	23	12
		14549	10 - 20	8300	< 0.8	< 5	23	< 0.8	2100	21	3	6	10000	5	1500	110	< 1.5	15	< 1	22	25	13
Area B grass	5037397	14550	0 - 5	7000	< 0.8	6	24	< 0.8	1700	18	3	23	11000	8	1200	100	< 1.5	33	< 1	20	26	19
		14551	0 - 5	8600	< 0.8	7	28	< 0.8	2600	24	4	38	13000	12	1400	140	< 1.5	50	< 1	29	32	21
Area C sand	5037398	14552	0 - 15	5400	< 0.8	< 5	21	< 0.8	1900	22	5	13	12000	3	3000	150	< 1.5	21	< 1	18	27	15
Area D sand	5037399	14553	0 - 15	5000	< 0.8	< 5	20	< 0.8	2200	24	5	13	12000	2	3000	150	< 1.5	19	< 1	17	28	18
St. Kevin (Bishop Alexander C.C.S.S.) -Sudbury Catholic District School Board,3075 Fer Road,Val Caron																						
Area A gravel	5037288	14774	0 - 5	9100	< 0.8	< 5	31	< 0.8	3900	42	12	59	21000	12	5900	240	< 1.5	57	< 1	28	38	38
		14775	0 - 5	8800	< 0.8	< 5	29	< 0.8	3700	40	15	64	21000	10	6000	240	< 1.5	63	< 1	25	38	39
Area B gravel	5037289	14776	0 - 5	10000	< 0.8	< 5	37	< 0.8	4200	42	10	71	21000	14	6100	250	< 1.5	68	< 1	29	39	37
		14777	0 - 5	10000	< 0.8	< 5	36	< 0.8	4400	44	11	82	23000	12	6400	280	< 1.5	92	< 1	31	46	38

Table F (results in bold)	NG	1.0	14	190	1.0	NG	67	19	56	NG	55	NG	NG	2.5	43	1.4	NG	91	150
Table A (results in bold and underlined)	NG	13	20	750	12.0	NG	750	40	225	NG	200	NG	NG	5.0	150	10	NG	200	600
< - less than the Method Detection Limit. All beryllium (Be) results were <0.5 µg/g. NG - no guideline.																			

Table B4.1: Concentration of 19 Elements in Soil in µg/g Collected on 105 School Properties in the Sudbury Area in the Summer of 2001																						
Map ID	Station	Sample Number	Soil Depth	Al	Sb	As	Ba	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Mo	Ni	Se	Sr	V	Zn
St. Mary -Sudbury Catholic District School Board,26 Meehan Avenue,Capreol																						
Area A gravel	5037352	14582	0 - 5	12000	< 0.8	6	32	< 0.8	1700	27	8	69	17000	22	2600	280	< 1.5	69	< 1	16	34	46
		14583	0 - 5	13000	< 0.8	8	31	< 0.8	1800	26	7	97	15000	25	2200	250	< 1.5	72	< 1	18	33	48
St. Michael -Sudbury Catholic District School Board,41 Samson Street,Sudbury																						
Area A gravel	5037083	14132	0 - 5	7200	< 0.8	< 5	26	< 0.8	3900	29	11	120	19000	11	5100	170	< 1.5	130	< 1	19	30	32
		14133	0 - 5	6500	< 0.8	< 5	29	< 0.8	5100	29	11	120	15000	11	4200	180	< 1.5	140	< 1	24	27	65
St. Michel Le Conseil Scolaire Catholique du Nouvel -Ontario,4500 Be St. Michele,Limer																						
Area A gravel	5037330	14622	0 - 5	6500	< 0.8	< 5	34	< 0.8	2300	30	24	66	21000	11	4300	170	< 1.5	53	< 1	15	32	33
		14623	0 - 5	5700	< 0.8	< 5	30	< 0.8	2200	26	18	53	17000	9	3700	150	< 1.5	56	< 1	14	28	27
Area B sand	5037331	14624	0 - 15	4500	< 0.8	< 5	18	< 0.8	2300	23	5	15	11000	2	3000	150	< 1.5	16	< 1	11	27	18
St. Paul -Le Conseil Scolaire Catholique du Nouvel -Ontario,185 6 th Avenue,Lively																						
Area A grass	5037245	14721	0 - 5	11000	< 0.8	6	67	< 0.8	6800	34	10	110	15000	19	3300	260	< 1.5	150	< 1	40	32	53
		14722	0 - 5	10000	< 0.8	< 5	58	< 0.8	6300	31	9	93	12000	15	2900	240	< 1.5	130	1	39	30	42
		14723	5 - 10	10000	< 0.8	7	53	< 0.8	3300	32	10	100	16000	14	3300	190	< 1.5	130	< 1	31	31	50
Area B gravel	5037246	14724	0 - 5	6400	< 0.8	< 5	30	< 0.8	2900	34	11	83	17000	13	4400	210	< 1.5	90	< 1	21	34	36
		14725	0 - 5	6900	< 0.8	< 5	31	< 0.8	3400	35	11	79	17000	12	4400	210	< 1.5	83	< 1	26	35	35
St. Paul -Sudbury Catholic District School Board,1 Edward Avenue North,Coniston																						
Area A gravel	5037263	14752	0 - 5	8900	< 0.8	6	43	< 0.8	4300	35	14	99	18000	12	5500	250	< 1.5	120	< 1	28	34	42
		14753	0 - 5	9500	< 0.8	6	45	< 0.8	4300	43	14	100	19000	14	5800	260	< 1.5	120	< 1	28	32	46
Area B sand	5037264	14754	0 - 15	4600	< 0.8	< 5	26	< 0.8	2400	18	6	15	10000	2	2700	130	< 1.5	17	< 1	18	23	13
St. Pierre -Le Conseil Scolaire Catholique du Nouvel -Ontario,70 Be Wred,Sudbury																						
Area A gravel	5037266	14772	0 - 5	8000	< 0.8	< 5	39	< 0.8	4800	35	29	93	22000	7	4900	230	< 1.5	120	< 1	28	34	39
		14773	0 - 5	8300	< 0.8	< 5	39	< 0.8	5200	33	17	82	18000	7	4700	210	< 1.5	88	< 1	30	30	31
St. Raphael -Sudbury Catholic District School Board,1096 Dublin Street,Sudbury																						
Area A gravel	5037193	14460	0 - 5	8300	< 0.8	< 5	34	< 0.8	3400	35	12	93	18000	14	4500	220	< 1.5	96	< 1	31	36	77
		14461	0 - 5	6400	< 0.8	< 5	30	< 0.8	3000	26	8	42	14000	8	3300	170	< 1.5	47	< 1	24	28	27
St. Theresa -Sudbury Catholic District School Board,56 Wford Rd,Sudbury																						
Area A sand	5037050	14106	0 - 15	6700	< 0.8	< 5	21	< 0.8	3200	28	7	18	15000	3	3900	180	< 1.5	21	< 1	28	31	16

Table F (results in bold)	NG	1.0	14	190	1.0	NG	67	19	56	NG	55	NG	NG	2.5	43	1.4	NG	91	150
Table A (results in bold and underlined)	NG	13	20	750	12.0	NG	750	40	225	NG	200	NG	NG	5.0	150	10	NG	200	600
< - less than the Method Detection Limit. All beryllium (Be) results were <0.5 µg/g. NG - no guideline.																			

Table B4.1: Concentration of 19 Elements in Soil in µg/g Collected on 105 School Properties in the Sudbury Area in the Summer of 2001																						
Map ID	Station	Sample Number	Soil Depth	Al	Sb	As	Ba	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Mo	Ni	Se	Sr	V	Zn
Area B sand	5037051	14107	0 - 15	6600	< 0.8	< 5	20	< 0.8	3100	28	7	17	14000	3	4100	170	< 1.5	21	< 1	26	26	15
Area C sand	5037052	14108	0 - 15	6500	< 0.8	< 5	21	< 0.8	2700	29	7	20	14000	3	4200	180	< 1.5	24	< 1	24	29	18
Area D gravel	5037053	14109	0 - 5	7400	< 0.8	< 5	28	< 0.8	3400	34	15	97	18000	9	4900	190	< 1.5	110	< 1	26	29	34
		14110	0 - 5	7700	< 0.8	< 5	28	< 0.8	3500	36	17	97	19000	9	5000	190	< 1.5	110	< 1	28	30	31
St. Thomas (formerly) -Sudbury Catholic District School Board -Otario,504 St. Raphael Street,Sudbury																						
Area A sand	5037094	14191	0 - 15	6500	< 0.8	< 5	18	< 0.8	2200	30	7	21	15000	3	5200	200	< 1.5	27	< 1	14	25	25
Area B sand	5037095	14192	0 - 15	6000	< 0.8	< 5	19	< 0.8	2500	29	7	22	16000	3	4100	180	< 1.5	23	< 1	16	32	23
Area C gravel	5037096	14193	0 - 5	5100	< 0.8	< 5	27	< 0.8	3000	24	11	100	13000	11	3300	170	< 1.5	130	< 1	16	25	200
		14194	0 - 5	5200	< 0.8	< 5	28	< 0.8	2600	24	11	100	13000	11	3400	170	< 1.5	130	< 1	16	24	150
Area D gravel	5037097	14195	0 - 5	6400	< 0.8	< 5	31	< 0.8	2800	32	22	130	18000	11	4600	190	< 1.5	150	< 1	20	30	40
		14196	0 - 5	8100	< 0.8	5	42	< 0.8	3800	35	23	140	19000	12	4900	210	< 1.5	190	< 1	29	33	39
Ste. Marie -Le Conseil Scolaire Catholique du Nouvel -Otario,25 Be Marier,Azilda																						
Area A gravel	5037373	14500	0 - 5	8100	< 0.8	< 5	34	< 0.8	4400	36	12	68	18000	14	5000	230	< 1.5	85	< 1	35	36	46
		14501	0 - 5	8000	< 0.8	< 5	34	< 0.8	4500	32	11	58	18000	12	5100	230	< 1.5	60	< 1	33	36	42
Area B sand	5037374	14502	0 - 15	5200	< 0.8	< 5	17	< 0.8	3500	23	5	17	13000	4	3200	170	< 1.5	19	< 1	25	28	25
Ste. Therese -Le Conseil Scolaire Catholique du Nouvel -Otario,4617 Be Ste. Therese,Val Therese																						
Area A sand	5037306	14656	0 - 15	4900	< 0.8	< 5	17	< 0.8	3000	24	5	9	12000	2	3100	150	< 1.5	14	< 1	19	28	14
Area B gravel	5037307	14657	0 - 5	7500	< 0.8	< 5	26	< 0.8	3800	39	8	37	16000	8	4400	230	< 1.5	36	< 1	29	34	27
		14658	0 - 5	8100	< 0.8	< 5	28	< 0.8	3800	37	8	44	17000	10	5000	230	< 1.5	40	< 1	30	37	32
Area C grass	5037308	14659	0 - 5	8800	< 0.8	6	36	< 0.8	4000	28	7	48	13000	14	2800	230	< 1.5	55	< 1	35	29	34
		14660	0 - 5	9300	< 0.8	< 5	37	< 0.8	3900	34	7	44	15000	12	3300	230	< 1.5	46	< 1	34	34	38
E.P. Sud Ouest Publique (MeneGravel) - Conseil Scolaire du District de Grand Nord de L Otario,1412 Be Stephen,Sudbury																						
Area A soil	5037041	14096	0 - 5	10000	< 0.8	< 5	49	< 0.8	8600	35	8	140	14000	18	4300	240	< 1.5	160	< 1	41	31	35
		14097	0 - 5	11000	< 0.8	< 5	47	< 0.8	8900	35	9	130	14000	28	4200	240	< 1.5	170	< 1	43	30	35
Area B grass	5037042	14098	0 - 5	10000	< 0.8	< 5	48	< 0.8	7700	34	8	120	14000	16	4100	250	< 1.5	140	< 1	38	30	34
		14099	0 - 5	11000	< 0.8	5	57	< 0.8	9100	36	9	170	15000	19	4200	280	< 1.5	190	1.7	47	32	39

Table F (results in bold)	NG	1.0	14	190	1.0	NG	67	19	56	NG	55	NG	NG	2.5	43	1.4	NG	91	150
Table A (results in bold and underlined)	NG	13	20	750	12.0	NG	750	40	225	NG	200	NG	NG	5.0	150	10	NG	200	600
< - less than the Method Detection Limit. All beryllium (Be) results were <0.5 µg/g. NG - no guideline.																			

Table B4.1: Concentration of 19 Elements in Soil in $\mu\text{g/g}$ Collected on 105 School Properties in the Sudbury Area in the Summer of 2001																						
Map ID	Station	Sample Number	Soil Depth	Al	Sb	As	Ba	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Mo	Ni	Se	Sr	V	Zn
Area C grass	5037043	14090	0 - 5	9400	< 0.8	< 5	44	< 0.8	7800	31	8	130	14000	16	4000	220	< 1.5	150	1.3	36	27	30
		14091	0 - 5	9600	< 0.8	< 5	44	< 0.8	7300	30	8	130	13000	31	3900	210	< 1.5	130	1.1	36	27	31
Area D soil	5037044	14092	0 - 5	10000	2	< 5	37	< 0.8	5700	30	8	110	13000	120	3200	220	< 1.5	120	< 1	43	29	29
Area E soil	5037045	14093	0 - 5	7600	< 0.8	< 5	26	< 0.8	3200	30	9	47	17000	4	4500	200	< 1.5	47	< 1	26	31	23
Area F sand	5037046	14094	0 - 15	10000	< 0.8	< 5	46	< 0.8	12000	33	8	110	14000	14	5500	250	< 1.5	130	< 1	46	29	28
		14095	0 - 15	8100	< 0.8	< 5	34	< 0.8	3400	33	8	54	18000	4	4700	210	< 1.5	53	< 1	24	36	32
Sudbury Secondary School - Rainbow District School Board,85 Mackenzie Street,Sudbury																						
Area A grass	5037131	14249	0 - 5	10000	< 0.8	6	43	0.8	6200	34	9	150	13000	29	3100	220	< 1.5	170	1	41	30	40
		14250	0 - 5	9200	< 0.8	7	37	< 0.8	5100	30	8	110	12000	21	2800	210	< 1.5	130	< 1	34	28	32
		14251	5 - 10	11000	< 0.8	6	36	< 0.8	5600	32	7	62	14000	13	3000	240	< 1.5	76	< 1	45	33	27
		14252	5 - 10	11000	< 0.8	7	37	< 0.8	5500	32	7	73	14000	19	2900	210	< 1.5	92	< 1	42	31	29
		14253	10 - 20	11000	< 0.8	5	42	< 0.8	5500	33	8	97	15000	20	2900	220	< 1.5	110	< 1	45	33	30
		14254	10 - 20	11000	< 0.8	< 5	37	< 0.8	5300	33	8	76	14000	22	3000	230	< 1.5	98	< 1	42	31	31
Area B soil	5037132	14255	0 - 5	10000	< 0.8	6	39	< 0.8	6000	32	8	85	13000	16	3300	240	< 1.5	100	< 1	47	33	31
Area C soil	5037133	14256	0 - 5	12000	< 0.8	7	42	< 0.8	6700	37	7	65	15000	19	3300	270	< 1.5	86	< 1	52	37	31
Val Caron Public School - Rainbow District School Board,1555 Main Street East,Val Caron																						
Area A grass	5037286	14778	0 - 5	12000	< 0.8	< 5	46	< 0.8	6000	36	7	47	15000	16	3500	240	< 1.5	62	< 1	43	34	43
		14779	0 - 5	12000	< 0.8	< 5	48	< 0.8	6100	37	7	42	16000	14	3600	250	< 1.5	55	< 1	42	35	37
		14780	5 - 10	12000	< 0.8	< 5	44	< 0.8	5600	35	6	42	15000	14	3300	230	< 1.5	58	< 1	37	32	41
		14781	5 - 10	13000	< 0.8	< 5	46	< 0.8	6200	38	7	41	16000	15	3700	250	< 1.5	56	< 1	40	35	43
		14782	10 - 20	9500	< 0.8	< 5	36	< 0.8	4000	28	5	42	12000	12	2400	160	< 1.5	57	< 1	28	27	26
		14783	10 - 20	12000	< 0.8	< 5	40	< 0.8	5500	35	6	45	15000	12	3300	210	< 1.5	52	< 1	38	33	39
Area B sand	5037287	14784	0 - 15	5500	< 0.8	< 5	21	< 0.8	4100	23	5	11	12000	2	3500	150	< 1.5	17	< 1	21	25	18
		14785	0 - 15	5000	< 0.8	< 5	18	< 0.8	11000	23	5	12	13000	2	5900	150	< 1.5	17	< 1	22	29	18

Table F (results in bold)	NG	1.0	14	190	1.0	NG	67	19	56	NG	55	NG	NG	2.5	43	1.4	NG	91	150
Table A (results in bold and underlined)	NG	13	20	750	12.0	NG	750	40	225	NG	200	NG	NG	5.0	150	10	NG	200	600
< - less than the Method Detection Limit. All beryllium (Be) results were <0.5 $\mu\text{g/g}$. NG - no guideline.																			

Table B4.1: Concentration of 19 Elements in Soil in $\mu\text{g/g}$ Collected on 105 School Properties in the Sudbury Area in the Summer of 2001

Map ID	Station	Sample Number	Soil Depth	Al	Sb	As	Ba	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Mo	Ni	Se	Sr	V	Zn
Valleyview Public School - Rainbow District School Board, 1840 Valley View Rd,Val Caron																						
Area A grass	5037281	14826	0 - 5	12000	< 0.8	< 5	45	< 0.8	5500	37	7	48	16000	14	3600	250	< 1.5	65	< 1	41	36	31
		14827	0 - 5	11000	< 0.8	< 5	43	< 0.8	5300	37	7	46	16000	14	3500	240	< 1.5	64	< 1	37	34	31
		14828	5 - 10	11000	< 0.8	< 5	42	< 0.8	5000	37	7	38	15000	12	3500	250	< 1.5	59	< 1	34	33	29
		14829	10 - 20	12000	< 0.8	< 5	39	< 0.8	5400	35	7	31	16000	10	3300	230	< 1.5	57	< 1	42	35	28
Area B soil	5037282	14832	0 - 5	10000	< 0.8	< 5	51	< 0.8	4300	40	12	76	20000	9	5800	270	< 1.5	110	< 1	34	43	38
		14833	0 - 5	10000	< 0.8	< 5	50	< 0.8	4200	41	11	59	20000	10	5900	280	< 1.5	55	< 1	33	41	38
Area C grass	5037283	14834	0 - 5	12000	< 0.8	< 5	53	< 0.8	7400	40	10	90	17000	21	3400	310	< 1.5	120	1.2	39	32	51
		14835	0 - 5	11000	< 0.8	< 5	54	< 0.8	6700	41	9	91	15000	22	3000	330	< 1.5	120	1.2	42	33	56
Area D soil	5037284	14836	0 - 5	11000	< 0.8	< 5	45	< 0.8	6400	36	6	47	14000	11	3000	280	< 1.5	71	< 1	39	30	43
Area E sand	5037285	14837	0 - 15	5800	< 0.8	< 5	23	< 0.8	3000	25	6	13	14000	2	3800	180	< 1.5	23	< 1	18	31	17
		14838	0 - 15	5400	< 0.8	< 5	20	< 0.8	2600	23	5	12	11000	2	3300	150	< 1.5	20	< 1	18	22	16
Maple Public School - Rainbow District School Board,4543 Highway 537,Sudbury																						
Area A grass	5037002	14223	0 - 5	7100	< 0.8	< 5	30	< 0.8	2100	21	5	56	9900	13	1600	180	< 1.5	65	< 1	22	23	22
		14224	0 - 5	8400	< 0.8	< 5	29	< 0.8	2400	22	5	58	11000	12	1900	180	< 1.5	59	< 1	25	25	25
		14225	5 - 10	8200	< 0.8	< 5	32	< 0.8	2100	20	4	45	11000	9	1600	180	< 1.5	58	< 1	21	24	24
		14226	5 - 10	12000	< 0.8	< 5	32	< 0.8	2200	22	5	45	15000	9	1800	230	< 1.5	64	< 1	22	25	25
		14227	10 - 20	8300	< 0.8	< 5	32	< 0.8	2300	21	4	34	11000	7	1700	200	< 1.5	56	< 1	23	24	24
		14228	10 - 20	7700	< 0.8	< 5	29	< 0.8	1800	20	4	24	9900	6	1700	200	< 1.5	48	< 1	17	22	21
Area B grass	5037003	14229	0 - 5	8800	< 0.8	< 5	35	< 0.8	3100	25	5	51	12000	13	2000	180	< 1.5	66	< 1	32	28	23
		14230	0 - 5	9300	< 0.8	< 5	36	< 0.8	3400	24	5	53	12000	12	1900	180	< 1.5	66	< 1	36	28	24
		14231	5 - 10	10000	< 0.8	< 5	36	< 0.8	2900	24	4	41	13000	9	1800	180	< 1.5	53	< 1	32	29	25
		14232	5 - 10	9600	< 0.8	< 5	33	< 0.8	2800	23	4	38	12000	8	1800	150	< 1.5	50	< 1	29	28	25
		14233	10 - 20	9900	< 0.8	< 5	38	< 0.8	3300	24	4	32	12000	7	1900	190	< 1.5	48	< 1	34	28	25
Area C soil	5037004	14234	10 - 20	10000	< 0.8	< 5	34	< 0.8	3000	25	4	25	13000	6	1900	180	< 1.5	44	< 1	32	28	24
		14235	0 - 5	7200	< 0.8	< 5	36	< 0.8	9800	30	9	27	15000	4	5000	200	< 1.5	27	< 1	61	31	27
Area D sand	5037005	14236	0 - 5	9400	< 0.8	< 5	34	< 0.8	5100	36	9	38	19000	4	5300	220	< 1.5	55	< 1	35	34	24
		14237	0 - 15	7700	< 0.8	< 5	23	< 0.8	3400	33	7	19	17000	3	4400	190	< 1.5	21	< 1	29	33	24

Table F (results in bold)	NG	1.0	14	190	1.0	NG	67	19	56	NG	55	NG	NG	2.5	43	1.4	NG	91	150
Table A (results in bold and underlined)	NG	13	20	750	12.0	NG	750	40	225	NG	200	NG	NG	5.0	150	10	NG	200	600
< - less than the Method Detection Limit. All beryllium (Be) results were < 0.5 $\mu\text{g/g}$. NG - no guideline.																			

Table B4.1: Concentration of 19 Elements in Soil in $\mu\text{g/g}$ Collected on 105 School Properties in the Sudbury Area in the Summer of 2001																						
Map ID	Station	Sample Number	Soil Depth	Al	Sb	As	Ba	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Mo	Ni	Se	Sr	V	Zn
Wmbley Public School - Rainbow District School Board, 408 Wmbley Drive, Sudbury																						
Area A grass	5037077	14159	0 - 5	8600	< 0.8	< 5	37	< 0.8	3700	31	16	160	15000	16	2600	190	< 1.5	180	< 1	29	26	37
		14160	0 - 5	9200	< 0.8	< 5	33	< 0.8	3700	29	7	81	12000	11	2500	180	< 1.5	88	< 1	31	27	30
Area B soil	5037078	14161	0 - 5	9400	< 0.8	< 5	30	< 0.8	4200	30	5	41	13000	8	2500	200	< 1.5	60	< 1	37	29	22
Area C soil	5037079	14162	0 - 5	8700	< 0.8	< 5	34	< 0.8	3700	29	8	120	12000	16	2500	170	< 1.5	130	< 1	36	27	40
Area D soil	5037080	14163	0 - 5	6500	< 0.8	< 5	27	< 0.8	3400	25	9	66	13000	7	3200	180	< 1.5	63	< 1	29	27	20
Area E sand	5037081	14164	0 - 15	5900	< 0.8	< 5	19	< 0.8	2700	28	7	24	14000	3	3800	170	< 1.5	29	< 1	19	29	18
Area F sand	5037082	14165	0 - 15	6200	< 0.8	< 5	21	< 0.8	3300	30	7	35	16000	4	3700	180	< 1.5	43	< 1	23	33	23
Westmount Avenue Public School - Rainbow District School Board, 511 Westmount Avenue, Sudbury																						
Area A grass	5037174	14311	0 - 5	8700	< 0.8	6	32	< 0.8	3200	29	7	70	13000	15	2400	150	< 1.5	81	< 1	30	29	25
		14312	0 - 5	8300	< 0.8	7	30	< 0.8	2800	27	6	63	12000	13	2300	150	< 1.5	66	< 1	26	28	25
		14313	5 - 10	8200	< 0.8	6	25	< 0.8	2500	27	6	36	13000	7	2300	150	< 1.5	42	< 1	23	30	21
		14314	5 - 10	9500	< 0.8	6	30	< 0.8	2500	27	7	41	13000	8	2400	170	< 1.5	54	< 1	25	29	22
		14315	10 - 20	6800	< 0.8	6	30	< 0.8	2600	25	5	25	13000	5	2300	160	< 1.5	38	< 1	25	30	16
		14316	10 - 20	10000	< 0.8	9	43	< 0.8	3800	30	7	40	15000	8	2400	230	< 1.5	58	< 1	38	34	22
Area B sand	5037175	14317	0 - 15	4600	< 0.8	< 5	19	< 0.8	2700	28	7	15	15000	3	2900	160	< 1.5	21	< 1	18	34	14
Area C gravel	5037176	14318	0 - 5	9200	< 0.8	6	38	< 0.8	3800	29	9	77	14000	13	3100	230	< 1.5	95	< 1	32	28	27
		14319	0 - 5	8100	0.8	7	33	< 0.8	3300	28	10	84	14000	13	3100	200	< 1.5	100	< 1	28	28	29
Area D grass	5037177	14320	0 - 5	9700	< 0.8	< 5	34	< 0.8	4200	26	6	53	12000	12	2700	170	< 1.5	66	< 1	25	25	28
		14321	0 - 5	10800	< 0.8	5	48	< 0.8	5500	36	9	110	14000	23	2800	240	< 1.5	130	1	39	30	38
Area E sand	5037178	14322	0 - 15	7300	< 0.8	5	28	< 0.8	2800	30	9	35	17000	4	3500	200	< 1.5	34	< 1	27	36	23
		14324	0 - 15	6400	< 0.8	6	28	< 0.8	2600	31	9	34	16000	4	3800	210	< 1.5	31	< 1	22	35	25

Table F (results in bold)	NG	1.0	14	190	1.0	NG	67	19	56	NG	55	NG	NG	2.5	43	1.4	NG	91	150
Table A (results in bold and underlined)	NG	13	20	750	12.0	NG	750	40	225	NG	200	NG	NG	5.0	150	10	NG	200	600
< - less than the Method Detection Limit. All beryllium (Be) results were <0.5 $\mu\text{g/g}$. NG - no guideline.																			

Table B4.1: Concentration of 19 Elements in Soil in $\mu\text{g/g}$ Collected on 105 School Properties in the Sudbury Area in the Summer of 2001

Map ID	Station	Sample Number	Soil Depth	Al	Sb	As	Ba	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Mo	Ni	Se	Sr	V	Zn
Area F grass	5037179	14325	0 - 5	10700	< 0.8	5	39	< 0.8	4100	33	7	71	14000	16	2600	200	< 1.5	86	< 1	36	29	30
		14326	0 - 5	10300	< 0.8	< 5	33	< 0.8	4300	26	6	54	12000	11	2700	170	< 1.5	68	< 1	29	26	25
		14327	5 - 10	11200	< 0.8	< 5	36	< 0.8	3500	26	5	30	13000	7	2200	160	< 1.5	42	< 1	31	27	21
		14328	5 - 10	10500	< 0.8	< 5	33	< 0.8	3000	24	5	39	12000	8	2000	150	< 1.5	50	< 1	27	25	21
		14329	10 - 20	10200	< 0.8	< 5	36	< 0.8	2700	26	5	33	12000	9	2000	140	< 1.5	49	< 1	23	25	20
Area G sand	5037180	14331	0 - 15	7200	< 0.8	6	29	< 0.8	3100	28	9	42	16000	5	3900	190	< 1.5	37	< 1	26	32	22

Table F (results in bold)	NG	1.0	14	190	1.0	NG	67	19	56	NG	55	NG	NG	2.5	43	1.4	NG	91	150
Table A (results in bold and underlined)	NG	13	20	750	12.0	NG	750	40	225	NG	200	NG	NG	5.0	150	10	NG	200	600
< - less than the Method Detection Limit. All beryllium (Be) results were <0.5 $\mu\text{g/g}$. NG - no guideline.																			

Table B4.2: Concentration of 19 Elements in Soil in µg/g Collected on 25 Daycare Properties in the Sudbury Area in the Summer of 2001

Map ID	Station	Sample Number	Soil Depth	Al	Sb	As	Ba	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Mo	Ni	Se	Sr	V	Zn
Alexander Kids at Alexander Public School, 39 St. Brendan Street, Sudbury																						
This daycare is operated by Larch Street Kids and is located in the same building as Alexander Public School, Rainbow District School Board. See Alexander Public																						
All Nations South End, 2690 Henri Street, Sudbury																						
Area A grass	5037008	14030	0 - 5	8300	< 0.8	< 5	31	< 0.8	3600	31	7	36	14000	6	3600	190	< 1.5	48	< 1	24	29	23
		14031	0 - 5	9900	< 0.8	< 5	31	< 0.8	4000	35	7	32	16000	6	4100	180	< 1.5	49	< 1	28	34	24
		14032	5 - 10	8700	< 0.8	< 5	25	< 0.8	2300	29	7	35	14000	5	3700	170	< 1.5	43	< 1	17	29	18
		14033	5 - 10	9500	< 0.8	< 5	28	< 0.8	3000	31	7	28	16000	5	3900	180	< 1.5	37	< 1	25	33	20
		14034	10 - 20	9400	< 0.8	< 5	26	< 0.8	2500	29	7	28	15000	5	3700	170	< 1.5	36	< 1	22	31	18
		14035	10 - 20	8400	< 0.8	< 5	27	< 0.8	2000	28	7	29	14000	5	3100	170	< 1.5	39	< 1	19	29	19
Area B sand	5037009	14036	0 - 15	4300	< 0.8	< 5	14	< 0.8	2400	23	4	14	11000	3	2500	150	< 1.5	16	< 1	17	27	14
		14037	0 - 15	4300	< 0.8	< 5	14	< 0.8	2300	24	3	15	11000	2	2600	150	< 1.5	11	< 1	16	26	14
Area C sand	5037010	14038	0 - 15	6200	< 0.8	< 5	19	< 0.8	2100	29	8	22	15000	3	4100	180	< 1.5	27	< 1	15	28	27
		14039	0 - 15	6200	< 0.8	< 5	20	< 0.8	2300	31	9	26	16000	4	4000	180	< 1.5	29	< 1	17	32	32
Area D grass	5037011	14040	0 - 5	6800	< 0.8	< 5	25	< 0.8	12000	30	7	33	13000	6	7300	190	< 1.5	46	< 1	23	23	20
		14041	0 - 5	7900	< 0.8	< 5	30	< 0.8	11000	35	9	38	13000	7	6500	210	< 1.5	58	< 1	27	25	27
		14042	5 - 10	7200	< 0.8	< 5	27	< 0.8	17000	25	6	32	12000	7	8500	200	< 1.5	51	< 1	33	25	17
		14043	5 - 10	7200	< 0.8	< 5	27	< 0.8	14000	25	6	30	12000	7	6900	190	< 1.5	45	< 1	38	26	19
		14044	10 - 20	8600	< 0.8	6	33	< 0.8	13000	27	7	63	13000	14	6500	220	< 1.5	93	< 1	39	28	28
		14045	10 - 20	6300	< 0.8	6	26	< 0.8	10000	22	6	39	11000	9	5300	160	< 1.5	58	< 1	31	24	17
Area E grass	5037012	14046	0 - 5	8600	< 0.8	< 5	39	< 0.8	6900	32	7	48	14000	10	4500	200	< 1.5	66	< 1	30	27	32
		14047	0 - 5	9500	< 0.8	< 5	40	< 0.8	7400	30	7	56	13000	11	4600	220	< 1.5	85	< 1	39	29	28
		14048	5 - 10	8700	< 0.8	< 5	39	< 0.8	9200	28	7	39	13000	9	5200	190	< 1.5	62	< 1	33	29	23
		14049	5 - 10	8600	< 0.8	< 5	36	< 0.8	7600	27	7	65	13000	13	4600	190	< 1.5	92	< 1	34	27	23
		14050	10 - 20	7400	< 0.8	< 5	31	< 0.8	7700	24	6	49	11000	11	4400	160	< 1.5	72	< 1	27	25	22
		14051	10 - 20	7300	< 0.8	< 5	30	< 0.8	5700	24	5	44	11000	9	3200	170	< 1.5	69	< 1	29	25	20
All Nations St. Christopher, 2841 C&E, Sudbury																						
This daycare is located in the same building as St. Christopher School, Catholic District School Board. See St. Christopher School above for the results.																						
Beattie Kids, 102 Loachs R., Sudbury																						
This daycare is operated by Larch Street Kids and is located in the same building as R.L. Beattie Public School, Rainbow District School Board. See R.L. Beattie Public School above for the results.																						

Table F (results in bold)	NG	1.0	14	190	1.0	NG	67	19	56	NG	55	NG	NG	2.5	43	1.4	NG	91	150
Table A (results in bold and underlined)	NG	13	20	750	12.0	NG	750	40	225	NG	200	NG	NG	5.0	150	10	NG	200	600
< - less than the Method Detection Limit. All beryllium (Be) results were <0.5 µg/g. NG - no guideline.																			

Table B4.2: Concentration of 19 Elements in Soil in µg/g Collected on 25 Daycare Properties in the Sudbury Area in the Summer of 2001																						
Map ID	Station	Sample Number	Soil Depth	Al	Sb	As	Ba	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Mo	Ni	Se	Sr	V	Zn
Capreol Child Care Centre at St. Mary,26 Meehan Street,Capreol																						
Area A sand	5037353	14580	0 - 15	5200	< 0.8	< 5	15	< 0.8	1700	21	4	10	9900	3	2500	140	< 1.5	15	< 1	11	24	14
		14581	0 - 15	4500	< 0.8	< 5	14	< 0.8	1800	18	4	7	8700	3	2300	120	< 1.5	13	< 1	11	20	12
Cedar Park Daycare #,1073 Beaumont Street,Sudbury																						
Area A grass	5037206	14839	0 - 5	8000	< 0.8	< 5	53	< 0.8	8100	34	8	99	13000	15	3500	220	< 1.5	110	1.6	35	31	48
		14840	0 - 5	8600	< 0.8	< 5	57	0.9	9000	32	9	130	13000	21	3600	240	< 1.5	130	1.5	38	32	62
Area B sand	5037207	14841	0 - 15	6400	< 0.8	< 5	21	< 0.8	2600	26	6	15	13000	3	4200	160	< 1.5	24	< 1	19	23	19
		14842	0 - 15	4700	< 0.8	< 5	17	< 0.8	2400	23	5	19	12000	3	3100	140	< 1.5	26	< 1	16	26	18
Cedar Park Daycare #,1096 Dublin St., Sudbury																						
This daycare is located in the same building as St. Raphael School, Sudbury Catholic District School Board. See St. Raphael School above for the results.																						
Centre Educatif Etoile du Nord at College Boreal,21 Lasalle Boulevard,Sudbury																						
Area A sand	5037201	14477	0 - 15	5400	< 0.8	7	26	< 0.8	2500	25	13	92	15000	7	3900	190	< 1.5	90	< 1	17	29	41
Area B sand	5037202	14478	0 - 15	5500	< 0.8	6	24	< 0.8	2500	23	11	69	14000	6	3500	180	< 1.5	65	< 1	18	29	32
Circle of Friends,106 Arlington Drive,Dowling																						
Area A sand	5037405	14561	0 - 15	4300	< 0.8	< 5	16	< 0.8	2900	25	5	10	12000	2	3000	140	< 1.5	16	< 1	14	29	14
Cotton Candy Daycare,298 College Street,Sudbury																						
Area A sand	5037113	14257	0 - 15	5900	< 0.8	< 5	20	< 0.8	2900	27	6	21	14000	3	3300	180	< 1.5	27	< 1	25	30	17
		14258	0 - 15	5500	< 0.8	< 5	17	< 0.8	3000	28	5	20	13000	3	3000	180	< 1.5	25	< 1	25	31	17
Area B sand	5037114	14259	0 - 15	8200	< 0.8	< 5	27	< 0.8	3000	30	8	36	16000	4	3400	200	< 1.5	39	< 1	32	32	24
		14260	0 - 15	6900	< 0.8	< 5	24	< 0.8	3200	29	8	36	15000	4	4200	190	< 1.5	39	< 1	24	31	22
C.R.Judd Daycare at C.R.Judd Public School,8 Lincoln Street,Capreol																						
This daycare is located in the same building as C.R. Judd Public School, Rainbow District School Board. See C.R. Judd Public School above for the results.																						
Garderie du Triangle Magique at St. Agnes,80 Be Landry,Azilda																						
Area A sand	5037365	14487	0 - 15	4200	< 0.8	< 5	13	< 0.8	2500	21	4	8	9100	2	2000	130	< 1.5	15	< 1	18	23	13
Area B grass	5037366	14488	0 - 5	8500	< 0.8	5	31	< 0.8	5300	28	6	54	13000	12	2500	200	< 1.5	69	< 1	33	27	32
		14489	0 - 5	8500	< 0.8	< 5	34	< 0.8	5100	30	7	64	14000	14	3100	210	< 1.5	71	< 1	34	28	29
Area C sand	5037367	14490	0 - 15	3700	< 0.8	< 5	11	< 0.8	2100	21	3	8	8700	2	1900	120	< 1.5	14	< 1	15	21	15
Table F (results in bold)				NG	1.0	14	190	1.0	NG	67	19	56	NG	55	NG	NG	2.5	43	1.4	NG	91	150
Table A (results in bold and underlined)				NG	13	20	750	12.0	NG	750	40	225	NG	200	NG	NG	5.0	150	10	NG	200	600
< - less than the Method Detection Limit. All beryllium (Be) results were <0.5 µg/g.NG - no guideline.																						

Table B4.2: Concentration of 19 Elements in Soil in µg/g Collected on 25 Daycare Properties in the Sudbury Area in the Summer of 2001

Map ID	Station	Sample Number	Soil Depth	Al	Sb	As	Ba	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Mo	Ni	Se	Sr	V	Zn
Area D grass	5037368	14491	0 - 5	8100	< 0.8	5	30	< 0.8	5000	25	6	54	12000	14	2300	200	< 1.5	65	< 1	33	26	31
		14492	0 - 5	7800	< 0.8	5	27	< 0.8	3600	24	5	35	11000	10	2100	190	< 1.5	44	< 1	28	24	28
Area E sand	5037369	14493	0 - 15	4300	< 0.8	23	12	< 0.8	2700	30	3	27	11000	2	1900	150	< 1.5	14	< 1	23	26	15
Area F grass	5037370	14494	0 - 5	7600	< 0.8	6	27	< 0.8	3900	24	5	45	11000	11	2100	180	< 1.5	53	< 1	30	24	25
		14495	0 - 5	8000	< 0.8	6	28	< 0.8	4200	25	5	46	12000	11	2200	190	< 1.5	54	< 1	31	26	25
Garderie ardinere Francophone ,4752 rue Notre Dame,Mimer																						
This daycare is located in the same building as E.P. Foyer Jeunesse, Conseil Scolaire du District de Grand Nord de L'Ontario. See E.P. Foyer Jeunesse above for the results.																						
Garderie ardinere Francophone formerly at Ecole Notre Dame,4503 Be Dennie,Mimer																						
Area A sand	5037325	14625	0 - 15	5500	< 0.8	< 5	22	< 0.8	2000	32	6	27	14000	4	3800	190	< 1.5	22	< 1	10	36	35
Area B gravel	5037326	14626	0 - 5	5200	< 0.8	< 5	20	< 0.8	2200	32	33	80	23000	13	4300	170	< 1.5	67	< 1	11	33	53
		14627	0 - 5	6000	< 0.8	< 5	22	< 0.8	2600	32	22	60	20000	11	4400	170	< 1.5	48	< 1	15	31	41
ubilee Heritage Centre formerly at St. Francis,691 Lilac Street,Sudbury																						
Area A soil	5037072	14146	0 - 5	8200	< 0.8	< 5	31	< 0.8	3300	30	8	56	14000	7	3600	180	< 1.5	69	< 1	26	28	27
		14147	0 - 5	6900	< 0.8	< 5	27	< 0.8	2800	29	8	62	13000	7	3700	170	< 1.5	74	< 1	21	28	26
Area B sand	5037073	14148	0 - 15	6000	< 0.8	< 5	21	< 0.8	2800	27	7	22	14000	3	4100	170	< 1.5	25	< 1	21	26	18
unior Citizens Daycare (formerly Little Des Corner),210 Lloyd Street,Sudbury																						
Area A grass	5037136	14238	0 - 5	9400	< 0.8	< 5	41	< 0.8	5000	34	8	86	14000	16	3000	220	< 1.5	94	< 1	39	30	46
		14239	0 - 5	9000	< 0.8	< 5	39	< 0.8	4500	35	9	67	14000	11	3300	210	< 1.5	76	< 1	37	31	38
Area B sand	5037137	14240	0 - 15	6000	< 0.8	< 5	22	< 0.8	2700	30	7	32	14000	6	3700	170	< 1.5	33	< 1	19	27	24
		14241	0 - 15	7800	< 0.8	< 5	29	< 0.8	3400	34	8	32	17000	5	4700	200	< 1.5	36	< 1	27	33	30
Area C sand	5037138	14242	0 - 15	6400	< 0.8	< 5	22	< 0.8	2500	26	7	35	12000	7	3700	170	< 1.5	40	< 1	21	23	26
		14243	0 - 15	6700	< 0.8	< 5	22	< 0.8	2900	27	7	38	13000	7	3700	170	< 1.5	43	< 1	23	25	27
La Garderie Touche a Tout,Laurentian diversity																						
Area A sand	5037058	14126	0 - 15	5400	< 0.8	< 5	20	< 0.8	3400	25	6	22	14000	3	3300	160	< 1.5	24	< 1	23	31	18
Area B grass	5037059	14127	0 - 5	11000	< 0.8	< 5	40	< 0.8	12000	37	6	37	15000	9	7300	220	< 1.5	57	< 1	47	34	24
		14128	0 - 5	11000	< 0.8	< 5	40	< 0.8	12000	37	6	39	16000	9	7100	210	< 1.5	58	< 1	45	33	24
Area C sand	5037060	14129	0 - 15	5800	< 0.8	< 5	19	< 0.8	3200	24	6	15	15000	2	3200	150	< 1.5	21	< 1	18	29	14

Table F (results in bold)	NG	1.0	14	190	1.0	NG	67	19	56	NG	55	NG	NG	2.5	43	1.4	NG	91	150
Table A (results in bold and underlined)	NG	13	20	750	12.0	NG	750	40	225	NG	200	NG	NG	5.0	150	10	NG	200	600

< - less than the Method Detection Limit. All beryllium (Be) results were <0.5 µg/g. NG - no guideline.

Table B4.2: Concentration of 19 Elements in Soil in µg/g Collected on 25 Daycare Properties in the Sudbury Area in the Summer of 2001

Map ID	Station	Sample Number	Soil Depth	Al	Sb	As	Ba	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Mo	Ni	Se	Sr	V	Zn
Area D grass	5037061	14130	0 - 5	11800	< 0.8	< 5	44	< 0.8	7100	36	8	49	16000	10	4400	210	< 1.5	73	< 1	43	35	31
		14131	0 - 5	10000	< 0.8	< 5	40	< 0.8	8100	34	7	43	14000	9	5000	210	< 1.5	64	< 1	43	32	25
Laurentian Child & Family Centre, Laurentian University																						
Area A sand	5037062	14115	0 - 15	3200	< 0.8	< 5	12	< 0.8	1500	15	3	6	7400	2	2100	100	< 1.5	11	< 1	15	16	9
Area B sand	5037063	14116	0 - 15	4500	< 0.8	< 5	17	< 0.8	3100	24	6	16	13000	3	3400	150	< 1.5	22	< 1	18	29	16
		14117	0 - 15	4500	< 0.8	< 5	17	< 0.8	3000	24	6	17	13000	3	3200	150	< 1.5	22	< 1	18	31	16
Area C sand	5037064	14122	0 - 15	4100	< 0.8	< 5	16	< 0.8	2200	20	4	8	9200	2	2200	120	< 1.5	12	< 1	18	22	10
Area D sand	5037065	14123	0 - 15	7700	< 0.8	< 5	23	< 0.8	4100	30	8	25	16000	3	4400	190	< 1.5	29	< 1	31	33	18
Area E grass	5037066	14118	0 - 5	11000	< 0.8	< 5	42	< 0.8	9500	37	6	37	15000	10	4900	230	< 1.5	59	< 1	50	34	28
		14119	0 - 5	11000	< 0.8	< 5	44	< 0.8	10000	37	6	37	15000	10	5400	230	< 1.5	60	< 1	51	35	28
Area F grass	5037067	14120	0 - 5	12000	< 0.8	< 5	44	< 0.8	12000	38	6	39	16000	10	6100	240	< 1.5	60	< 1	50	35	30
		14121	0 - 5	12000	< 0.8	< 5	45	< 0.8	11000	41	6	37	16000	11	5700	240	< 1.5	58	< 1	50	35	31
Area G grass	5037068	14124	0 - 5	11000	< 0.8	< 5	46	< 0.8	11000	38	6	41	15000	10	5600	240	< 1.5	60	< 1	49	35	30
		14125	0 - 5	11000	< 0.8	6	45	< 0.8	11000	37	6	41	15000	10	5300	230	< 1.5	60	< 1	50	34	31
Maple Tree Preschool Inc. # at St. Benedict Secondary, 2993 Algonquin Road, Sudbury																						
Area A grass	5037026	14064	0 - 5	8200	< 0.8	< 5	29	< 0.8	6400	29	6	22	14000	6	4400	180	< 1.5	35	< 1	31	27	22
		14065	0 - 5	8500	< 0.8	6	34	< 0.8	7000	30	6	27	14000	6	4100	200	< 1.5	41	< 1	35	30	24
Area B sand	5037027	14067	0 - 15	6700	< 0.8	< 5	24	< 0.8	3400	32	6	18	15000	3	3600	180	< 1.5	20	< 1	29	31	17
Area C sand	5037028	14066	0 - 15	6400	< 0.8	< 5	21	< 0.8	3100	28	6	19	14000	3	3700	170	< 1.5	22	< 1	26	28	17
Maple Tree Preschool Inc. #, 158 John Street, Sudbury																						
Area A grass	5037087	14173	0 - 5	6300	< 0.8	< 5	27	< 0.8	2400	21	6	55	9000	8	2100	110	< 1.5	75	< 1	20	21	28
		14174	0 - 5	7900	< 0.8	< 5	30	< 0.8	3700	24	6	67	11000	9	2300	140	< 1.5	86	< 1	29	25	27
		14175	5 - 10	8400	< 0.8	< 5	30	< 0.8	3300	26	6	59	12000	11	2600	160	< 1.5	65	< 1	29	26	29
		14176	5 - 10	7500	< 0.8	< 5	29	< 0.8	3000	25	7	43	11000	8	2400	140	< 1.5	54	< 1	26	25	26
		14177	10 - 20	8100	< 0.8	7	29	< 0.8	2800	28	11	160	15000	27	2900	170	< 1.5	160	< 1	21	30	37
		14178	10 - 20	6600	< 0.8	5	24	< 0.8	2200	22	7	91	12000	17	2200	140	< 1.5	99	< 1	15	22	26

Table F (results in bold)	NG	1.0	14	190	1.0	NG	67	19	56	NG	55	NG	NG	2.5	43	1.4	NG	91	150
Table A (results in bold and underlined)	NG	13	20	750	12.0	NG	750	40	225	NG	200	NG	NG	5.0	150	10	NG	200	600
< - less than the Method Detection Limit. All beryllium (Be) results were <0.5 µg/g. NG - no guideline.																			

Table B4.2: Concentration of 19 Elements in Soil in µg/g Collected on 25 Daycare Properties in the Sudbury Area in the Summer of 2001

Map ID	Station	Sample Number	Soil Depth	Al	Sb	As	Ba	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Mo	Ni	Se	Sr	V	Zn
Area B sand	5037088	14172	0 - 15	4100	< 0.8	< 5	14	< 0.8	1500	17	4	10	8100	3	2400	110	< 1.5	17	< 1	14	16	10
Play and Learn Daycare,1400 Barrydowne Road,Sudbury																						
Area A sand	5037172	14330	0 - 15	5000	< 0.8	< 5	18	< 0.8	3300	25	6	14	13000	2	3200	150	< 1.5	21	< 1	21	29	17
Area B sand	5037173	14332	0 - 15	6100	< 0.8	< 5	22	< 0.8	3100	31	9	29	15000	4	3300	170	< 1.5	34	< 1	23	31	23
Princess Anne Kids at Princess Anne Public School,500 Douglas St., Sudbury																						
This daycare is operated by Larch Street Kids and is located in the same building as Princess Anne Public School, Rainbow District School Board. See Princess Anne Public School above for the results.																						
Kids at Robert Mack Public School,7 Margaret Street,Garson																						
Area A gravel	5037275	14428	0 - 5	5400	< 0.8	6	25	< 0.8	2900	23	7	23	11000	4	2700	140	< 1.5	31	< 1	19	25	18
Area B sand	5037275	14429	0 - 15	4600	< 0.8	5	18	< 0.8	2800	25	6	15	12000	3	2800	150	< 1.5	22	< 1	17	29	17
Services De Garde De Byside -Balfour #,30 H Street,Chelmsford																						
Area A sand	5037379	14514	0 - 15	4800	< 0.8	< 5	14	< 0.8	2700	22	6	15	12000	4	2900	150	< 1.5	18	< 1	21	25	18
Area B sand	5037378	14515	0 - 15	4600	< 0.8	< 5	11	< 0.8	2500	22	5	11	10000	3	2700	120	< 1.5	17	< 1	18	22	15
		14516	0 - 15	4800	< 0.8	< 5	16	< 0.8	2500	24	7	18	13000	4	3400	160	< 1.5	20	< 1	18	29	21
Area C sand	5037380	14517	0 - 15	4700	< 0.8	< 5	12	< 0.8	2500	25	5	13	10000	3	2900	130	< 1.5	18	< 1	18	25	17
Area D grass	5037381	14518	0 - 5	8400	< 0.8	7	32	< 0.8	4200	27	8	48	12000	17	2600	200	< 1.5	66	< 1	32	26	30
		14519	0 - 5	10000	< 0.8	5	36	< 0.8	5200	30	7	38	13000	15	2800	210	< 1.5	58	< 1	40	29	28
Services De Garde De Byside -Balfour # at Chelmsford Public School,121 Charlotte Street,Chelmsford																						
This daycare is located in the same building as Chelmsford Public School, Rainbow District School Board. See Chelmsford Public School above for the results.																						
Shooting Star Daycare,4120 Elmview Drive,Hammer																						
Area A sand	5037312	14644	0 - 15	7700	< 0.8	< 5	32	< 0.8	3900	35	11	26	15000	5	3700	230	< 1.5	60	< 1	30	33	27
Area B sand	5037313	14645	0 - 15	5100	< 0.8	< 5	22	< 0.8	2800	30	6	16	14000	3	3700	170	< 1.5	23	< 1	16	30	18
Area C sand	5037314	14646	0 - 15	5700	< 0.8	< 5	25	< 0.8	2800	32	10	20	15000	4	4200	200	< 1.5	27	< 1	18	33	22

Table F (results in bold)	NG	1.0	14	190	1.0	NG	67	19	56	NG	55	NG	NG	2.5	43	1.4	NG	91	150
Table A (results in bold and underlined)	NG	13	20	750	12.0	NG	750	40	225	NG	200	NG	NG	5.0	150	10	NG	200	600
< - less than the Method Detection Limit. All beryllium (Be) results were <0.5 µg/g. NG - no guideline.																			

Table B4.2: Concentration of 19 Elements in Soil in µg/g Collected on 25 Daycare Properties in the Sudbury Area in the Summer of 2001																						
Map ID	Station	Sample Number	Soil Depth	Al	Sb	As	Ba	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Mo	Ni	Se	Sr	V	Zn
Area D sand	5037315	14647	0 - 15	6000	< 0.8	< 5	23	< 0.8	3000	30	7	18	15000	4	4100	190	< 1.5	26	< 1	21	31	22
Area E sand	5037316	14648	0 - 15	5000	< 0.8	< 5	20	< 0.8	2900	28	6	14	13000	3	3300	170	< 1.5	22	< 1	18	29	16
Area F soil	5037317	14649	0 - 5	8200	< 0.8	< 5	28	< 0.8	4100	28	5	16	12000	6	2300	190	< 1.5	34	< 1	33	28	17
		14650	0 - 5	7800	< 0.8	< 5	27	< 0.8	4100	27	4	12	12000	5	2300	200	< 1.5	28	< 1	34	27	15
Smiles N'Freckles Inc. Daycar e,63 Ridgemont Avenue,Sudbury																						
Area A sand	5037150	14363	0 - 15	4800	< 0.8	< 5	21	< 0.8	4500	23	7	18	13000	33	3500	150	< 1.5	20	< 1	17	28	17
		14364	0 - 15	5200	< 0.8	< 5	21	< 0.8	5200	25	8	19	14000	3	3900	160	< 1.5	21	< 1	18	33	19
St. Albert Child Care Centre,135 Eyre Street,Sudbury																						
Area A grass	5037105	14221	0 - 5	8100	< 0.8	< 5	40	< 0.8	4200	28	5	20	12000	5	3400	170	< 1.5	29	< 1	25	28	17
		14222	0 - 5	8400	< 0.8	< 5	45	< 0.8	4200	29	6	20	13000	5	3400	170	< 1.5	31	< 1	27	28	18
Teddy Bear Daycare # at First Baptist Church,2503 Falconbridge Highway																						
Area A sand	5037268	14430	0 - 15	4800	< 0.8	6	20	< 0.8	2500	23	6	17	12000	3	3000	150	< 1.5	22	< 1	16	30	16
		14431	0 - 15	5400	< 0.8	5	25	< 0.8	3500	26	6	16	13000	3	3300	170	< 1.5	23	< 1	25	31	17
Teddy Bear Daycare # at Falconbridge Recreation Centre,Edison Road,Falconbridge																						
Area A sand	5037360	14760	0 - 15	4400	< 0.8	< 5	17	< 0.8	2200	20	5	14	10000	2	2600	130	< 1.5	21	< 1	17	22	13
		14761	0 - 15	5000	< 0.8	< 5	21	< 0.8	2600	21	5	13	11000	2	2600	140	< 1.5	19	< 1	20	25	14
Teddy Bear Daycare #,181 Wiam St.,Garson																						
This daycare is located in the same building as St. John School, Sudbury Catholic District School Board. See St. John School above for the results.																						
Valley East Coopat Raymond Plourde Arena,1919 Mene Street,Val Caron																						
Area A grass	5037296	14788	0 - 5	9900	< 0.8	7	29	< 0.8	2700	24	4	43	12000	10	1800	140	< 1.5	50	1	27	25	27
		14789	0 - 5	9300	< 0.8	< 5	29	< 0.8	2900	24	4	42	11000	11	1800	140	< 1.5	54	< 1	31	26	26
Area B sand	5037297	14790	0 - 15	7300	< 0.8	< 5	22	< 0.8	3000	42	7	28	20000	4	4500	230	< 1.5	28	< 1	23	50	25
Area C sand	5037298	14791	0 - 15	8400	< 0.8	< 5	32	< 0.8	3400	46	8	35	21000	5	4900	260	< 1.5	28	< 1	27	47	38
Area D sand	5037299	14792	0 - 15	8500	< 0.8	< 5	29	< 0.8	3400	50	11	36	24000	5	4800	280	< 1.5	29	< 1	26	59	30
Area E sand	5037300	14793	0 - 15	9600	< 0.8	< 5	43	< 0.8	3700	52	8	48	23000	6	5500	300	< 1.5	30	< 1	33	56	36

Table F (results in bold)	NG	1.0	14	190	1.0	NG	67	19	56	NG	55	NG	NG	2.5	43	1.4	NG	91	150
Table A (results in bold and underlined)	NG	13	20	750	12.0	NG	750	40	225	NG	200	NG	NG	5.0	150	10	NG	200	600
< - less than the Method Detection Limit. All beryllium (Be) results were <0.5 µg/g. NG - no guideline.																			

Table B4.2: Concentration of 19 Elements in Soil in µg/g Collected on 25 Daycare Properties in the Sudbury Area in the Summer of 2001

Map ID	Station	Sample Number	Soil Depth	Al	Sb	As	Ba	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Mo	Ni	Se	Sr	V	Zn
Area F sand	5037301	14794	0 - 15	6800	< 0.8	< 5	22	< 0.8	2900	45	7	26	21000	4	4300	230	< 1.5	27	< 1	23	54	39
Area G sand	5037302	14795	0 - 15	8300	< 0.8	< 5	28	< 0.8	3100	50	8	39	26000	6	5000	240	< 1.5	35	< 1	25	56	35
Area H sand	5037303	14796	0 - 15	7000	< 0.8	< 5	29	< 0.8	2800	55	8	33	23000	5	4500	230	< 1.5	30	< 1	21	56	32
Widen Daycare Centre #,500 Niemi Drive,Lively																						
Area A grass	5037238	14711	0 - 5	8800	< 0.8	< 5	37	< 0.8	4200	30	6	38	12000	8	2800	200	< 1.5	49	< 1	31	29	27
		14712	0 - 5	10000	< 0.8	< 5	39	< 0.8	4400	31	7	42	14000	9	2800	210	< 1.5	52	< 1	36	31	30
Area B sand	5037239	14718	0 - 15	5700	< 0.8	< 5	19	< 0.8	3000	29	8	20	13000	3	3800	170	< 1.5	21	< 1	19	30	19
	5037240	14713	0 - 15	5800	< 0.8	< 5	22	< 0.8	3900	28	7	18	12000	3	4100	180	< 1.5	18	< 1	24	29	17
Area C mulch	5037241	14714	0 - 15	5900	< 0.8	< 5	20	< 0.8	4000	27	8	34	13000	4	3700	170	< 1.5	35	< 1	25	27	22
Area D sand	5037242	14715	0 - 15	5200	< 0.8	< 5	18	< 0.8	2200	28	10	31	12000	5	3500	150	< 1.5	30	< 1	16	25	29
Area E grass	5037243	14716	0 - 5	9600	< 0.8	< 5	59	< 0.8	4900	38	17	92	18000	17	4000	260	< 1.5	110	< 1	36	34	51
		14717	0 - 5	9700	< 0.8	< 5	67	< 0.8	5000	36	13	93	17000	37	4000	270	< 1.5	95	< 1	39	37	58
Widen Daycare Centre # at St. James School,280 Anderson Drive,Lively																						
This daycare is located in the same building as St. James School, Sudbury Catholic District School Board. See St. James School above for the results.																						
Widen Play and Learn,3 Watview Crescent,Lively																						
Area A sand	5037236	14709	0 - 15	7800	< 0.8	< 5	32	< 0.8	4900	28	6	53	18000	4	4700	160	< 1.5	25	< 1	26	29	27
Area B sand	5037237	14710	0 - 15	8300	< 0.8	< 5	26	< 0.8	4600	30	7	28	17000	6	4700	220	< 1.5	28	< 1	35	38	24
Area C grass	5037235	14707	0 - 5	11000	< 0.8	< 5	30	< 0.8	3200	21	6	41	14000	10	2600	110	< 1.5	73	< 1	23	22	21
		14708	0 - 5	9100	< 0.8	< 5	45	< 0.8	2700	30	6	61	13000	8	2700	160	< 1.5	73	< 1	33	31	31

Table F (results in bold)	NG	1.0	14	190	1.0	NG	67	19	56	NG	55	NG	NG	2.5	43	1.4	NG	91	150
Table A (results in bold and underlined)	NG	13	20	750	12.0	NG	750	40	225	NG	200	NG	NG	5.0	150	10	NG	200	600
< - less than the Method Detection Limit. All beryllium (Be) results were <0.5 µg/g. NG - no guideline.																			

5.0 SAMPLING LOCATION COORDINATES

Table B5: Coordinates of School and Daycare Sampling Stations, in Map Datum NAD83
(coordinates were obtained using GPS and are accurate to approximately 30 m)

Station	Location	UM		Geographic	
		Easting	Northing	Longitude	Latitude
5037002	Wanup Public School	513421	5136174	-80.825479	46.379009
5037003		513391	5136143	-80.82587	46.378728
5037004		513381	5136126	-80.826001	46.378575
5037005		513416	5136134	-80.825545	46.378647
5037006	Baron Academy Nursery (formerly)	504563	5142525	-80.940603	46.436281
5037007		504548	5142493	-80.940798	46.435993
5037008	All Nations -South End	504075	5142258	-80.946957	46.433884
5037009		504093	5142247	-80.946723	46.433782
5037010		504107	5142270	-80.946541	46.433989
5037011		504110	5142247	-80.946502	46.433782
5037012		504103	5142260	-80.946593	46.433899
5037013	St. Christopher	503249	5141813	-80.957712	46.429881
5037014		503186	5141847	-80.958532	46.430187
5037015		503203	5141834	-80.958311	46.43007
5037016	Algonquin Road Public School	500354	5142554	-80.995392	46.43656
5037017		500352	5142556	-80.995418	46.436578
5037018		500338	5142571	-80.9956	46.436713
5037019		500337	5142626	-80.995613	46.437206
5037020		500359	5142617	-80.995327	46.437127
5037021	Long Lake Public School	500548	5139146	-80.992871	46.405887
5037022		500550	5139207	-80.992844	46.406436
5037023	St. Benedict Secondary	501210	5142163	-80.98425	46.43304
5037024		501210	5142212	-80.98425	46.433481
5037025		501213	5142115	-80.984211	46.432608
5037026	Maple Tree Preschool Inc. #2	501212	5142383	-80.984224	46.43502
5037027		501227	5142383	-80.984028	46.43502
5037028		501212	5142368	-80.984224	46.434885
5037029	Lo-Ellen Park Secondary	500831	5143846	-80.98918	46.448187
5037030		500853	5143857	-80.988894	46.448286
5037031		500788	5143820	-80.98974	46.447953
5037032	R.L. Beattie Public School	500437	5144126	-80.99431	46.450708
5037033		500443	5144122	-80.994232	46.450672
5037034		500469	5144164	-80.993893	46.451047
5037035		500435	5144164	-80.994336	46.451047
5037036		500505	5144164	-80.993425	46.451047
5037037		500456	5144130	-80.994063	46.450744
5037038		500511	5144109	-80.993346	46.450555
5037039	Corpus Christi	498293	5145309	-81.022231	46.461352
5037040		498275	5145294	-81.022465	46.461217

Table B5: Coordinates of School and Daycare Sampling Stations, in Map Datum NAD83 (coordinates were obtained using GPS and are accurate to approximately 30 m)					
Station	Location	UM		Geographic	
		Easting	Northing	Longitude	Latitude
5037041	E.P. Sud Ouest Publique (Helene-Gravel)	498106	5145238	-81.024666	46.460713
5037042		498138	5145257	-81.024249	46.460884
5037043		498109	5145272	-81.024627	46.461019
5037044		498093	5145272	-81.024835	46.461019
5037045		498136	5145272	-81.024275	46.461019
5037046		498087	5145298	-81.024913	46.461253
5037047	MacLeod Public School	499542	5145464	-81.005965	46.462746
5037048		499540	5145431	-81.005991	46.462449
5037049		499533	5145493	-81.006082	46.46301
5037050	St. Theresa	499819	5145670	-81.002357	46.464603
5037051		499820	5145672	-81.002344	46.464621
5037052		499833	5145672	-81.002175	46.464621
5037053		499843	5145666	-81.002045	46.464567
5037055	Lockerby Composite School	499666	5145812	-81.00435	46.465881
5037056		499663	5145857	-81.004389	46.466286
5037057		499665	5145784	-81.004363	46.465629
5037058	La Garderie Touche a Tout Daycare	502578	5145537	-80.966425	46.463399
5037059		502566	5145544	-80.966581	46.463462
5037060		502582	5145545	-80.966373	46.463471
5037061		502570	5145552	-80.966529	46.463534
5037062	Laurentian Child & Family Centre	502581	5145486	-80.966386	46.46294
5037063		502554	5145507	-80.966738	46.463129
5037064		502565	5145510	-80.966594	46.463156
5037065		502569	5145519	-80.966542	46.463237
5037066		502550	5145517	-80.96679	46.463219
5037067		502555	5145527	-80.966725	46.463309
5037068		502567	5145530	-80.966568	46.463336
5037069		498970	5146965	-81.013418	46.476257
5037070	St. Francis	498933	5146989	-81.0139	46.476473
5037071		498924	5147049	-81.014017	46.47701
5037072	Jubilee Heritage Centre formerly at St. Francis	498947	5147095	-81.013717	46.477427
5037073		498960	5147087	-81.013548	46.477355
5037074	St. Denis	499547	5147138	-81.005901	46.477812
5037075		499526	5147161	-81.006175	46.478019
5037076		499554	5147214	-81.00581	46.478496
5037077	Wembley Public School	499558	5147460	-81.005758	46.480712
5037078		499591	5147478	-81.005328	46.480875
5037079		499531	5147452	-81.00611	46.48064
5037080		499580	5147496	-81.005472	46.481034
5037081		499507	5147441	-81.006423	46.480541
5037082		499621	5147457	-81.004938	46.480686
5037083	St. Michael	500380	5147489	-80.995049	46.480974

Table B5: Coordinates of School and Daycare Sampling Stations, in Map Datum NAD83
(coordinates were obtained using GPS and are accurate to approximately 30 m)

Station	Location	UM		Geographic	
		Easting	Northing	Longitude	Latitude
5037084	Alexander Public School	500349	5147908	-80.995453	46.484744
5037085		500385	5147894	-80.994984	46.484618
5037086	Alexander Public School & Alex. Kids	500392	5147889	-80.994893	46.484573
5037087	Maple Tree Preschool Inc. #1	500715	5147777	-80.990685	46.483565
5037088		500715	5147776	-80.990685	46.483556
5037089	E.P. Jeanne-Sauve	500965	5148383	-80.987426	46.489016
5037090		500960	5148380	-80.987491	46.488989
5037091		500913	5148403	-80.988104	46.489196
5037092		500890	5148322	-80.988404	46.488467
5037093		500890	5148312	-80.988404	46.488377
5030970		500970	5148105	-80.987362	46.486514
5037094		501602	5148531	-80.979126	46.490349
5037095	St. Thomas (formerly)	501578	5148558	-80.979438	46.490592
5037096		501568	5148571	-80.979569	46.490709
5037097		501571	5148552	-80.97953	46.490535
5037098	Gatchell School	497959	5146826	-81.026587	46.475004
5037099		497971	5146833	-81.026431	46.475067
5037100		497978	5146836	-81.026339	46.475091
5037101		497985	5146844	-81.026248	46.475166
5037102		497987	5146826	-81.026222	46.475001
5037103	St. Anthony	497960	5147227	-81.026576	46.47861
5037104		497960	5147200	-81.026576	46.478367
5037105	St. Albert Child Care Centre	499335	5148519	-81.008665	46.490243
5037106	Princess Anne Public School	499054	5148085	-81.012326	46.486337
5037106		499054	5148085	-81.012326	46.486337
5037107		499068	5148095	-81.012143	46.486427
5037108		499057	5148099	-81.012286	46.486463
5037109	Montessori School of Sudbury	499464	5148386	-81.006984	46.489043
5037110		499455	5148386	-81.007101	46.489043
5037111		499462	5148361	-81.00701	46.488818
5037113	Cotton Candy Daycare	500025	5149564	-80.999674	46.499648
5037114		500021	5149569	-80.999726	46.499693
5037115	Lansdowne Public School	499701	5149304	-81.003896	46.497305
5037116		499718	5149320	-81.003675	46.497449
5037117		499657	5149320	-81.00447	46.497449
5037118	St. David	499399	5149961	-81.007833	46.50322

Table B5: Coordinates of School and Daycare Sampling Stations, in Map Datum NAD83 (coordinates were obtained using GPS and are accurate to approximately 30 m)					
Station	Location	UM		Geographic	
		Easting	Northing	Longitude	Latitude
5037119	Queen Elizabeth II Public School	500474	5150353	-80.993822	46.506748
5037120		500454	5150353	-80.994083	46.506748
5037121		500494	5150353	-80.993561	46.506748
5037122		500448	5150308	-80.994161	46.506343
5037123		500445	5150375	-80.9942	46.506943
5037124		500382	5150380	-80.995021	46.506988
5037125		500341	5150363	-80.995555	46.506835
5037126		500422	5150399	-80.9945	46.507159
5037127	Sudbury Better Beginnings	500374	5149975	-80.995126	46.503347
5037128		500390	5149955	-80.994917	46.503164
5037129	St. Joseph - Sudbury	500319	5149845	-80.995843	46.502174
5037129		500319	5149845	-80.995843	46.502174
5037130		500415	5149845	-80.994591	46.502174
5037131	Sudbury Secondary School	500047	5149193	-80.999388	46.496309
5037132		500072	5149192	-80.999062	46.4963
5037133		500022	5149192	-80.999713	46.4963
5037134	Marymount Academy	500408	5149260	-80.994683	46.496912
5037135	College Notre Dame	500592	5149518	-80.992285	46.499234
5037136	Junior Citizens Daycare	500789	5148903	-80.989719	46.493699
5037137		500798	5148923	-80.989601	46.493879
5037138		500800	5148928	-80.989575	46.493924
5037139	St. Jean (formerly)	503095	5148974	-80.959669	46.494328
5037140		503113	5148925	-80.959435	46.493887
5037141	E.S.C l'Heritage	504699	5149363	-80.938763	46.497823
5037142		504699	5149411	-80.938763	46.498255
5037143		504697	5149310	-80.93879	46.497346
5037144	Adamsdale Public School	504734	5149054	-80.93831	46.495041
5037145		504709	5149040	-80.938636	46.494913
5037146		504709	5148992	-80.938637	46.494481
5037147		504729	5149023	-80.938376	46.49476
5037148	Pius XII	505407	5148576	-80.929546	46.490735
5037149	Ecole St. Remi (formerly)	507095	5148155	-80.907557	46.486927
5037150	Smiles 'N' Freckles Daycare	507597	5148120	-80.901017	46.486607
5037151	E.P. Jean-Ethier-Blais	506234	5152180	-80.918722	46.523159
5037152		506200	5152220	-80.919164	46.523519
5037153		506200	5152180	-80.919165	46.523159
5037154		506200	5152158	-80.919165	46.522961
5037155	St. Dominique	505958	5152452	-80.922317	46.525609
5037156		505908	5152480	-80.922968	46.525862
5037157		505977	5152483	-80.922068	46.525888
5037158		506042	5152522	-80.92122	46.526238
5037159		505950	5152524	-80.92242	46.526257

Table B5: Coordinates of School and Daycare Sampling Stations, in Map Datum NAD83
(coordinates were obtained using GPS and are accurate to approximately 30 m)

Station	Location	UM		Geographic	
		Easting	Northing	Longitude	Latitude
5037160	St. Charles College	505619	5151727	-80.926745	46.519091
5037161		505545	5151671	-80.927711	46.518587
5037162		505619	5151727	-80.926745	46.519091
5037163		505545	5151671	-80.927711	46.518587
5037164	St. Bernadette	505292	5151381	-80.931012	46.515979
5037165		505256	5151359	-80.931482	46.515782
5037166	Churchill Public School	504968	5151678	-80.935233	46.518652
5037167		504952	5151705	-80.935441	46.518895
5037168		504929	5151726	-80.935741	46.519084
5037169		504987	5151736	-80.934985	46.519173
5037170		505063	5151727	-80.933994	46.519092
5037171		505083	5151740	-80.933733	46.519209
5037172	Play and Learn Daycare	504614	5152820	-80.939837	46.528935
5037173		504614	5152820	-80.939837	46.528935
5037174	Westmount Avenue Public School	504605	5150640	-80.939976	46.509316
5037175		504582	5150659	-80.940275	46.509484
5037176		504575	5150685	-80.940366	46.509721
5037177		504549	5150694	-80.940705	46.509799
5037178		504518	5150709	-80.941109	46.509934
5037179		504564	5150701	-80.940509	46.509862
5037180		504563	5150719	-80.940522	46.510027
5037181		504005	5150896	-80.947794	46.51162
5037182	Ecole Leon XIII	503959	5150958	-80.948393	46.512179
5037183		503955	5150929	-80.948446	46.511918
5037184	Carl A. Nesbitt Public School	503841	5152248	-80.949921	46.523789
5037185		503841	5152226	-80.949921	46.523591
5037186		503841	5152267	-80.949921	46.52396
5037187		503849	5152279	-80.949816	46.524068
5037188		503788	5152379	-80.950611	46.524968
5037189		503788	5152320	-80.950611	46.524437
5037190	St. Raphael	503788	5152347	-80.950611	46.52468
5037191		503793	5152238	-80.950547	46.523699
5037192		503788	5152277	-80.950612	46.52405
5037193		503317	5151666	-80.956757	46.518557
5037194	Felix Ricard	502383	5151892	-80.968932	46.520592
5037195		502402	5151912	-80.968684	46.520771
5037196		502364	5151868	-80.96918	46.520376
5037197		502349	5151977	-80.969375	46.521357
5037198		502353	5152016	-80.969323	46.521708
5037199		502379	5152016	-80.968984	46.521708
5037200		502366	5152025	-80.969153	46.521789

Table B5: Coordinates of School and Daycare Sampling Stations, in Map Datum NAD83 (coordinates were obtained using GPS and are accurate to approximately 30 m)					
Station	Location	TM		Geographic	
		Easting	Northing	Longitude	Latitude
5037201	Centre Educatif Etoile du Nord	500544	5151499	-80.992908	46.517062
5037202		500544	5151499	-80.992908	46.517062
5037203	E.S. Macdonald Cartier	500870	5151885	-80.988658	46.520532
5037204		500870	5151845	-80.988658	46.520172
5037205		500870	5151925	-80.988657	46.520892
5037206	Cedar Park Daycare	503361	5152630	-80.956176	46.527229
5037207		503358	5152625	-80.956215	46.527187
5037208	Ernie Checkeris Public School	503768	5153119	-80.950865	46.531631
5037209		503735	5153114	-80.951296	46.531583
5037210		503725	5153120	-80.951426	46.531637
5037211		503702	5153120	-80.951726	46.531637
5037212	St. Andrew	503993	5152573	-80.947936	46.526713
5037213		503990	5152478	-80.947976	46.525858
5037214		503979	5152431	-80.94812	46.525435
5037215	Lasalle Secondary	504654	5152456	-80.939319	46.525655
5037216		504654	5152420	-80.939319	46.525331
5037217		504603	5152435	-80.939984	46.525467
5037218		504704	5152435	-80.938667	46.525466
5037219	Sacred Heart (formerly)	505877	5152147	-80.923377	46.522868
5037220	Cyril Varney Public School	505778	5153103	-80.924655	46.531469
5037221		505738	5153103	-80.925177	46.53147
5037222		505818	5153103	-80.924134	46.531469
5037223		505712	5153115	-80.925516	46.531578
5037224		505709	5153090	-80.925555	46.531353
5037225		505709	5153058	-80.925556	46.531065
5037226		505719	5153028	-80.925426	46.530795
5037227	Jessie Hamilton Public School	491363	5140925	-81.1124	46.421842
5037228		491379	5140959	-81.112192	46.422148
5037229		491326	5140952	-81.112882	46.422084
5037230		491307	5140926	-81.113129	46.42185
5037231		491242	5140936	-81.113975	46.421939
5037232		491342	5140936	-81.112673	46.421941
5037233		491363	5140992	-81.112401	46.422445
5037234		491349	5140971	-81.112583	46.422256
5037235	Walden Play and Learn	489540	5140698	-81.136119	46.419776
5037236		489563	5140692	-81.135819	46.41972
5037237		489551	5140682	-81.135975	46.419629
5037238	Walden Daycare Centre	488827	5141553	-81.145418	46.427459
5037239		488811	5141557	-81.145626	46.427492
5037240		488809	5141556	-81.145652	46.427483
5037242		488835	5141564	-81.145314	46.427556
5037243		488832	5141571	-81.145353	46.427619

Table B5: Coordinates of School and Daycare Sampling Stations, in Map Datum NAD83 (coordinates were obtained using GPS and are accurate to approximately 30 m)					
Station	Location	TM		Geographic	
		Easting	Northing	Longitude	Latitude
5037244	St. James	488546	5141945	-81.149084	46.430982
5037245	St. Paul	488584	5142397	-81.148601	46.435048
5037246		488561	5142436	-81.148901	46.435399
5037247	Lively District High School	489202	5142537	-81.14056	46.436318
5037248	George Vanier Public School	489176	5142672	-81.140901	46.437533
5037249		489169	5142690	-81.140993	46.437695
5037250		489218	5142689	-81.140355	46.437686
5037251		489238	5142718	-81.140095	46.437948
5037252		489240	5142749	-81.14007	46.438227
5037253		489233	5142778	-81.140162	46.438488
5037254	Copper Cliff Public School	494367	5146850	-81.073378	46.475196
5037255		494367	5146904	-81.073379	46.475682
5037256		494377	5146902	-81.073248	46.475665
5037257		494367	5146896	-81.073379	46.47561
5037258		494367	5146781	-81.073377	46.474576
5037259		494390	5146787	-81.073078	46.47463
5037260		494411	5146870	-81.072805	46.475377
5037261		494453	5146867	-81.072258	46.47535
5037262	Our Lady of Fatima	484984	5138653	-81.195341	46.401285
5037263	St. Paul	511593	5148986	-80.848931	46.494343
5037264		511604	5149029	-80.848787	46.49473
5037265	Notre Dame De La Merci	511426	5148991	-80.851107	46.494394
5037266	St. Pierre	505299	5148367	-80.930955	46.488854
5037267	Ecole St. Pierre (formerly)	516454	5148102	-80.785619	46.486289
5037268	Teddybear Daycare #1, First Baptist	508385	5154781	-80.89063	46.546546
5037269	St. Augustin	508982	5155316	-80.882833	46.55135
5037270		508954	5155302	-80.883198	46.551228
5037271		509012	5155302	-80.882442	46.551224
5037272	Robert Jack Public School	509964	5155582	-80.870017	46.55373
5037273		509940	5155603	-80.87033	46.553919
5037274		509881	5155550	-80.871101	46.553443
5037275	RJ Kids at Robert Jack Public School	509943	5155546	-80.870292	46.553406
5037276	St. John	510424	5155952	-80.864008	46.557053
5037277		510439	5156056	-80.86381	46.557989
5037278		510452	5155916	-80.863644	46.556728
5037279	E.S.C. l'Horizon	499337	5160295	-81.008656	46.596218
5037280		499293	5160255	-81.00923	46.595858
5037281	Valleyview Public School	498704	5160147	-81.016919	46.594885
5037282		498685	5160166	-81.017168	46.595056
5037283		498739	5160164	-81.016463	46.595038
5037284		498739	5160165	-81.016463	46.595047
5037285		498670	5160236	-81.017364	46.595686

Table B5: Coordinates of School and Daycare Sampling Stations, in Map Datum NAD83
(coordinates were obtained using GPS and are accurate to approximately 30 m)

Station	Location	UM		Geographic	
		Easting	Northing	Longitude	Latitude
5037286	Val Caron Public School	499562	5161840	-81.00572	46.610122
5037287		499573	5161787	-81.005576	46.609649
5037288	St. Kevin (Bishop Alexander C.C.S.S)	500126	5162193	-80.998354	46.613299
5037289		500105	5162111	-80.998629	46.612561
5037290	Notre Dame de l'Esperance	498850	5161790	-81.015017	46.609671
5037291		498862	5161770	-81.014861	46.609491
5037292		498907	5161759	-81.014273	46.609392
5037293	Immaculate Conception	499043	5162095	-81.012498	46.61242
5037294	Confederation Secondary School	498560	5162173	-81.018806	46.613118
5037295		498560	5162173	-81.018806	46.613118
5037296	Valley East Co-op-Raymond Plourde Arena	498574	5162426	-81.018624	46.615394
5037297		498586	5162410	-81.018467	46.61525
5037298		498564	5162410	-81.018754	46.61525
5037299		498564	5162422	-81.018754	46.615358
5037300		498565	5162434	-81.018741	46.615466
5037301		498564	5162445	-81.018754	46.615565
5037302		498586	5162445	-81.018467	46.615565
5037303		498586	5162431	-81.018467	46.615439
5037304	Notre Dame du Rosaire	496033	5161353	-81.0518	46.605728
5037305		495982	5161353	-81.052466	46.605728
5037306	Ste. Therese	499777	5166711	-81.002914	46.653962
5037307		499778	5166766	-81.002901	46.654453
5037308		499750	5166702	-81.003267	46.653877
5037309	St. Joseph - Hanmer	500521	5166250	-80.993191	46.649809
5037310		500502	5166242	-80.99344	46.649737
5037311		500521	5166230	-80.993191	46.649629
5037312	Shooting Star Daycare	501085	5165040	-80.985824	46.638919
5037313		501085	5165055	-80.985824	46.639054
5037314		501085	5165070	-80.985824	46.639189
5037315		501085	5165085	-80.985824	46.639324
5037316		501105	5165055	-80.985562	46.639054
5037317		501105	5165095	-80.985562	46.639414
5037318	Pinecrest Public School	499247	5165110	-81.009839	46.63955
5037319		499209	5165061	-81.010335	46.639109
5037320		499218	5165050	-81.010217	46.63901
5037321		499248	5165029	-81.009825	46.638821
5030971		499214	5165065	-81.01027	46.639149
5037322		510767	5156256	-80.859526	46.559783
5037323	Northeastern Secondary	510852	5156240	-80.858418	46.559638
5037324		510877	5156215	-80.858092	46.559416
5037325	Garderie Jardiniere Francophone formerly at Ecole ND	504106	5166467	-80.94634	46.651754
5037326		504071	5166467	-80.946797	46.651754

Table B5: Coordinates of School and Daycare Sampling Stations, in Map Datum NAD83 (coordinates were obtained using GPS and are accurate to approximately 30 m)					
Station	Location	UM		Geographic	
		Easting	Northing	Longitude	Latitude
5037327	Notre Dame	504074	5166374	-80.946759	46.650913
5037328		504024	5166435	-80.947411	46.651462
5037329		504017	5166390	-80.947503	46.651057
5037330	St. Michel	505121	5166475	-80.933075	46.651819
5037331		505120	5166432	-80.933088	46.651432
5037332	Redwood Acres Public School	504610	5166820	-80.939749	46.654923
5037333		504640	5166820	-80.939357	46.654923
5037334		504580	5166820	-80.940141	46.654923
5037335		504665	5166807	-80.939031	46.654806
5037336		504665	5166858	-80.93903	46.655265
5037337		504665	5166775	-80.939031	46.654518
5037338		504610	5166710	-80.93975	46.653933
5037339	E.S. Hanmer	504373	5167420	-80.942841	46.660324
5037340		504290	5167420	-80.943926	46.660325
5037341		504373	5167378	-80.942842	46.659946
5037342		504331	5167420	-80.94339	46.660325
5037343	E.P. Foyer Jeunesse & Garderie Jardiniere Francophone	504335	5167218	-80.94334	46.658507
5037344		504296	5167218	-80.943849	46.658507
5037345		504296	5167186	-80.94385	46.658219
5037345		504296	5167186	-80.94385	46.658219
5037346		504335	5167186	-80.94334	46.658219
5037347	St. Anne	502556	5167032	-80.966593	46.656842
5037348		502528	5166999	-80.966959	46.656545
5037349		502512	5166976	-80.967168	46.656338
5037350		502491	5166951	-80.967443	46.656113
5037351	Capreol High School - Millennium Centre	506018	5172175	-80.921277	46.703103
5037352	St. Mary	505992	5172126	-80.921618	46.702662
5037353	Capreol Child Care Centre at St. Mary	505966	5172085	-80.921959	46.702294
5037354	C.R. Judd Public School	505983	5173357	-80.92172	46.713745
5037355		505970	5173304	-80.921891	46.713264
5037356		506003	5173344	-80.921458	46.713623
5037357	Falconbridge Public School	514090	5158361	-80.816108	46.578669
5037358		514066	5158358	-80.816422	46.578639
5037359		514102	5158364	-80.815951	46.578692
5037360	Teddy Bear Daycare #2 - Centennial Park	514311	5158361	-80.813224	46.578664
5037361	E.P. Franco Nord	492131	5154824	-81.10264	46.546936
5037362		492114	5154881	-81.102863	46.547449
5037363		492122	5154777	-81.102757	46.546513
5037364		492104	5154817	-81.102992	46.546873

Table B5: Coordinates of School and Daycare Sampling Stations, in Map Datum NAD83 (coordinates were obtained using GPS and are accurate to approximately 30 m)					
Station	Location	UM		Geographic	
		Easting	Northing	Longitude	Latitude
5037365	Garderie du Triangle Magique at St. Agnes	491631	5155040	-81.109166	46.548874
5037366		491640	5155040	-81.109049	46.548874
5037367		491631	5155065	-81.109166	46.549099
5037368		491640	5155065	-81.109049	46.549099
5037369		491631	5155090	-81.109167	46.549324
5037370		491640	5155090	-81.109049	46.549324
5037371	Association for Community Living	491740	5155052	-81.107744	46.548987
5037372		491736	5155054	-81.107797	46.549005
5037373	Ste. Marie	491174	5155525	-81.115136	46.553236
5037374		491094	5155490	-81.116179	46.55292
5037375	Chelmsford Valley District School	485137	5157538	-81.193954	46.571242
5037376		485092	5157575	-81.194542	46.571574
5037377		485188	5157575	-81.19329	46.571577
5037378	Services De Garde De Rayside - Balfour	484963	5157769	-81.196232	46.573317
5037379		484955	5157762	-81.196336	46.573254
5037380		484963	5157757	-81.196232	46.573209
5037381		484976	5157762	-81.196062	46.573255
5037382	E.S.C. Champlain	484706	5157571	-81.199579	46.57153
5037383		484666	5157623	-81.200103	46.571997
5037384		484724	5157631	-81.199346	46.57207
5037385	Jacques Cartier	484304	5157925	-81.204837	46.574706
5037386		484332	5157910	-81.204471	46.574572
5037387		484388	5157933	-81.203741	46.57478
5037388	Chelmsford Public School	485482	5158252	-81.189474	46.577676
5037389		485413	5158260	-81.190375	46.577746
5037390		485406	5158302	-81.190468	46.578124
5037391		485526	5158359	-81.188903	46.578639
5037392	Mgr Cote	485189	5158328	-81.193301	46.578353
5037393		485189	5158368	-81.193302	46.578713
5037394	St. Charles	485523	5158757	-81.188955	46.582221
5037395		485495	5158788	-81.189321	46.5825
5037396	St. Joseph - Chelmsford	484741	5159125	-81.199174	46.585516
5037397		484726	5159057	-81.199367	46.584903
5037398		484770	5159074	-81.198794	46.585057
5037399		484770	5159033	-81.198792	46.584688
5037400	St. Etienne	474810	5159821	-81.328838	46.59148
5037401		474830	5159821	-81.328577	46.591481
5037402	Larchwood Public School	474275	5159085	-81.335781	46.584836
5037403		474275	5159109	-81.335782	46.585052
5037404		474258	5159116	-81.336005	46.585115
5037405	Circle of Friends	473496	5159299	-81.345961	46.586735

Table B5: Coordinates of School and Daycare Sampling Stations, in Map Datum NAD83 (coordinates were obtained using GPS and are accurate to approximately 30 m)					
Station	Location	UM		Geographic	
		Easting	Northing	Longitude	Latitude
5037406	Levack Public School (formerly)	469960	5165490	-81.392518	46.642297
5037407		469920	5165430	-81.393037	46.641755
5037408	Levack District High School (now Levack	469638	5165811	-81.396747	46.645171
5037409	R.H. Murray Public School	475745	5136367	-81.31541	46.380444
5037410		475745	5136367	-81.31541	46.380444
5037411		475684	5136429	-81.316207	46.380997

City of Greater Sudbury 2001 Urban Soil Survey

Appendix C

Park Results

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1. METHODS

During the months of September and October of 2001, samples were collected from 169 park properties including those provided by the city as of July 2001, as well as additional properties MOE located that were not listed by the city. At each site samples were collected in duplicate from all play areas and especially from areas where young children could come in direct contact with bare soil. Samples were collected in different ways from different locations as described below.

Sand samples were collected from beneath all play structures and/or beach areas. Due to the constant mixing of sand and homogenous nature of the sanded areas, sand samples were collected with hand trowels or corers to represent the 0-15 cm depth. Duplicate samples were collected in a reproducible and representative manner of the sanded areas (ie. "X" pattern)

Soccer and football fields were sampled in duplicate with a soil corer in an "X" pattern of the entire length of the field. Cores were separated into three depths, 0-5 cm, 5 - 10 cm, and 10 - 20 cm where possible. In addition, duplicate samples were taken in any worn area; most predominately at soccer goal posts and centre field. Due to the compacted nature of these areas, surface soil samples were taken with a trowel when necessary.

Baseball diamond infields were in most cases gravel and very compacted. Therefore, duplicate surface samples were taken with a trowel or corer while walking along the baseline. Baseball diamond outfields were sampled in duplicate with soil corers in an "X" or "M" pattern. Cores were separated into three depths, 0-5 cm, 5 - 10 cm, and 10 - 20 cm where possible. Where the infield was grassed, samples were collected with a soil corer either as a separate site or combined with the baseball diamond outfield.

Sand from long jump pit landing sites was sampled in duplicate in an "X" pattern. A hand trowel or corer was used to sample the 0 to 15 cm layer due to the constant mixing of the sand in this location.

Samples were also taken from any grassed area where children would play. Cores were separated into three depths, 0-5 cm, 5 - 10 cm, and 10 - 20 cm where possible.

Soil samples were delivered to the MOE Phytotoxicology laboratory where they were organized and shipped to Agat Laboratories for Processing (MOE 2000, Appendix F). Agat followed MOE Standard Operating Procedures which included air drying and sieving samples to obtain the 2 mm size fraction, and then further grinding the sample in a mortar and pestle to pass through a Number 45 mesh (0.355 mm) sieve. Finally, the ground material was stored in glass jars. All soil samples were then forwarded to Lakefield Laboratory for chemical analysis including: arsenic (As), aluminum (Al), barium (Ba), beryllium (Be), calcium (Ca), cadmium (Cd), cobalt (Co), copper (Cu), chromium (Cr), iron (Fe), magnesium (Mg), manganese (Mn), molybdenum (Mo), nickel (Ni), lead (Pb), selenium (Se), strontium (Sr), vanadium (V), and zinc (Zn). MOE data management and quality control procedures for both sample processing and metals analysis carried out by contract laboratories is outlined in Appendix F.

Soil data were compared with the MOE Table F Soil Background Guidelines and Table A Soil Clean-up Guidelines (MOE 1997). Table C3.1 summarizes the total number of parks that were sampled in the City of Greater Sudbury, as well as the number of parks sampled in each community

where at least one sample exceeded the MOE soil criteria for nickel (Ni), copper (Cu), cobalt (Co), arsenic (As) or lead (Pb). Complete results for each park are listed in Section C4. All of the data presented within this report will be used to support the Human Health Risk Assessment that will be conducted for the Greater City of Sudbury.

Sketch maps of each park showing the sampling location and pattern of sampling are located in Section C5. The maps were recreated from hand drawn sketches made by MOE field investigators in the field and thus the sampling site locations are only approximate.

2. INDIVIDUAL PARK RESULTS, DESCRIPTION AND MAPS

The three parks with the highest metals concentrations are discussed individually within this section. These parks are: Bell Park in the Sudbury Core, Copper Cliff Nickel Park and Gerry Mills Park in Copper Cliff, and Centennial Park and Falconbridge Ball Fields in Falconbridge. For each of the three parks there is a section below describing the results, a table with a subset of the results, and a map showing the sampling locations.

C2.1 Bell Park - Sudbury Core 900 Paris Street, Sudbury

Bell Park was sampled on September 12, 2001. Figure C2.1 details the sampling locations at this property. Samples were taken from sixteen play areas and five beaches on the park property. Sampling locations descriptions are provided in Table C2.1.

All soil samples were taken from three depths of 0-5 cm, 5-10 cm and 10-20 cm. Due to the constant mixing of sand and the homogenous nature of the sanded areas, play sand and beach sand samples were collected with hand trowels or corers to represent the 0-15 cm depth. Due to constant mixing, bark chips were collected with hand trowels to represent the 0-10 cm depth. All data were compared with the MOE Table F Ontario Soil Background Criteria and Table A Effects Based Soil Criteria.

Metal concentrations were not elevated in the sand beneath the play structures of Areas G and K and one replicate of Area M. The sand present is not likely native to the park property and is believed to have been introduced when the play structures were constructed. However, beach sand from Beach Areas 1 to 5 did have nickel concentrations elevated above the MOE Table F Ontario Soil Background Criteria. Beach sand is known to be native and thus concentrations found may reflect natural elevations due to long term metals deposition.

Nickel (Ni) concentrations were elevated above the MOE Table F Ontario Soil Background Criteria in all other soil samples from this property. The highest nickel (Ni), copper (Cu), cobalt (Co) and arsenic (As) concentrations, 3284, 1800, 100 and 45 ppm, respectively, occurred in the surface soil of the treed area west of the parking on the west side of Paris Street, north of York Street (Area O). Areas O and P were the only non landscaped areas sampled from this park and had the highest concentrations of metals. Within the landscaped areas of the park, Area A had the highest nickel (Ni), copper (Cu) and cobalt (Co) concentrations at 1528, 950 and 55 ppm, respectively. All other areas of Bell Park have substantially lower metals concentrations than Areas A, O and P, with average nickel, copper, cobalt and arsenic concentrations of approximately 110, 88, 9 and 6 ppm, respectively.

The nickel (Ni) and copper (Cu) results for Areas A, O and P are much higher than those reported historically, whereas metals results for all other locations at Bell Park are similar to or lower than historic findings. Previous MOE sampling of undisturbed soils approximately 0.4 km north northwest and 2 km northeast of Bell Park, Stations 74 and 75, respectively, of the MOE Sudbury 2000 Report for the City of Greater Sudbury (MOE 2001), indicated a nickel (Ni) concentration range of 145 - 830 ppm. Copper (Cu) concentrations ranged from 220 - 820 ppm. Cobalt (Co) concentrations ranged from 11 - 38 and the arsenic (As) concentration range was 11 - 52 ppm.

Table C2.1: Sample Location Descriptions for Bell Park, Sudbury Core		
Sample Area	Area Description	Sample Type
Area A	Greenspace South of York St. Parking Lot	soil
Area B	Greenspace behind Amphitheatre	soil
Area C	Greenspace South of Pond	soil
Area D	Greenspace East of East Parking Lot	soil
Area E	Greenspace West of Main Gazebo	soil
Area F	Greenspace West of Main Beach	soil
Area G	Play Structures North of Hospital	play sand
Area H	Greenspace around Area G	soil
Area I	Greenspace South of First Aid Station	soil
Area J	Greenspace North of Swings (Area N)	soil
Area K	Swings North of Hospital	play sand
Area L	Greenspace North of Ramsey Airways	soil
Area M	Main Play Structure South of North Parking Lot	bark chips
Area N	Swings South of Main Play Structure	bark chips
Area O	Treed Area West of Parking Lot, West of Paris St. & North of York St.	soil
Area P	Treed Area West of Parking Lot, West of Paris St. & South of York St.	soil
Beach A	Beach on Southeast end of Park, South of Amphitheatre	beach sand
Beach B	Beach located East of Flower Garden, North of Amphitheatre	beach sand
Beach C	Beach North of Beach B and South of Main Gazebo	beach sand
Beach D	Beach Just South of Old Canoe Club	beach sand
Beach E	Main Beach South of North Parking Lot off of John Street	beach sand

Table C2.1: Concentrations of 13 Elements in Soil in µg/g Collected at Bell Park, 900 Paris Street, Sudbury - 2001.

Station	Map ID	Soil Depth	Sample No.	Sb	As	Ba	Cd	Cr	Co	Cu	Pb	Mo	Ni	Se	V	Zn
5030441 Green Space	A	0-5 cm (soil)	20001	1.2	<u>32</u>	120	1.7	37	<u>55</u>	<u>950</u>	101	< 1.5	<u>1528</u>	7	33	70
			20002	< 0.8	<u>26</u>	120	1.1	39	<u>33</u>	<u>590</u>	57	< 1.5	<u>787</u>	4	36	52
		5-10 cm (soil)	20003	< 0.8	<u>20</u>	130	< 0.8	37	20	<u>360</u>	39	< 1.5	<u>423</u>	2	36	42
			20004	< 0.8	16	130	< 0.8	37	11	<u>200</u>	15	< 1.5	<u>211</u>	1	37	36
		10-20 cm (soil)	20005	< 0.8	10	110	< 0.8	40	9	61	11	< 1.5	<u>114</u>	< 1	39	32
			20006	< 0.8	6	120	< 0.8	43	8	49	8	< 1.5	<u>93</u>	< 1	41	31
5030442 Green Space	B	0-5 cm (soil)	20017	< 0.8	< 5	40	< 0.8	34	10	<u>89</u>	17	< 1.5	<u>112</u>	1	32	45
			20018	< 0.8	< 5	43	< 0.8	35	8	80	15	< 1.5	<u>102</u>	< 1	35	40
		5-10 cm (soil)	20019	< 0.8	< 5	54	< 0.8	38	7	65	12	< 1.5	<u>86</u>	< 1	41	32
			20020	< 0.8	< 5	43	< 0.8	34	6	62	10	< 1.5	<u>80</u>	< 1	39	29
		10-20 cm (soil)	20021	< 0.8	< 5	51	< 0.8	34	5	47	7	< 1.5	<u>52</u>	< 1	38	29
			20022	< 0.8	< 5	42	< 0.8	32	6	46	8	< 1.5	<u>63</u>	< 1	34	24
5030443 Green Space	C	0-5 cm (soil)	20023	< 0.8	< 5	74	< 0.8	45	11	83	22	< 1.5	<u>104</u>	< 1	40	45
			20024	< 0.8	< 5	74	< 0.8	45	11	<u>160</u>	30	< 1.5	<u>188</u>	< 1	36	52
		5-10 cm (soil)	20025	< 0.8	< 5	58	< 0.8	39	12	<u>130</u>	29	< 1.5	<u>142</u>	1	35	44
			20026	< 0.8	< 5	62	< 0.8	42	10	72	16	< 1.5	<u>87</u>	< 1	38	39
		10-20 cm (soil)	20027	< 0.8	< 5	64	< 0.8	36	9	57	19	< 1.5	<u>65</u>	< 1	31	30
			20028	< 0.8	< 5	59	< 0.8	36	11	49	11	< 1.5	<u>67</u>	< 1	32	31
5030444 Green Space	D	0-5 cm (soil)	20029	< 0.8	7	42	1.1	30	15	<u>180</u>	40	< 1.5	<u>257</u>	2	29	47
			20030	< 0.8	7	44	0.9	30	12	<u>170</u>	42	< 1.5	<u>230</u>	2	30	48
		5-10 cm (soil)	20031	< 0.8	7	38	< 0.8	30	7	83	16	< 1.5	<u>110</u>	1	31	32
			20032	< 0.8	7	36	< 0.8	30	7	<u>89</u>	22	< 1.5	<u>120</u>	< 1	31	33
		10-20 cm (soil)	20033	< 0.8	6	35	< 0.8	28	6	58	12	< 1.5	<u>86</u>	< 1	28	26
			20034	< 0.8	8	39	< 0.8	29	7	<u>86</u>	18	< 1.5	<u>120</u>	1	30	32
5030445 Green Space	E	0-5 cm (soil)	20035	< 0.8	< 5	37	< 0.8	27	8	<u>93</u>	38	< 1.5	<u>120</u>	1	27	36
			20036	< 0.8	< 5	42	< 0.8	29	9	<u>98</u>	21	< 1.5	<u>110</u>	1	27	36
		5-10 cm (soil)	20037	< 0.8	5	64	< 0.8	28	9	<u>97</u>	<u>59</u>	< 1.5	<u>120</u>	< 1	27	46
			20038	< 0.8	7	35	< 0.8	25	7	<u>86</u>	24	< 1.5	<u>90</u>	2	25	34
		10-20 cm (soil)	20039	< 0.8	7	56	< 0.8	29	10	<u>130</u>	39	< 1.5	<u>170</u>	1	28	43
			20040	< 0.8	6	48	< 0.8	27	8	<u>86</u>	29	< 1.5	<u>100</u>	< 1	28	38
5030446 Green Space	F	0-5 cm (soil)	20041	< 0.8	7	57	< 0.8	35	11	<u>150</u>	22	< 1.5	<u>150</u>	1	34	38
			20042	< 0.8	5	61	< 0.8	36	10	<u>110</u>	19	< 1.5	<u>130</u>	1	34	34
		5-10 cm (soil)	20043	< 0.8	5	56	< 0.8	35	8	58	9	< 1.5	<u>76</u>	< 1	36	27
			20044	< 0.8	6	56	< 0.8	36	8	68	12	< 1.5	<u>82</u>	< 1	37	29
		10-20 cm (soil)	20045	< 0.8	6	60	< 0.8	36	9	67	20	< 1.5	<u>90</u>	< 1	36	27
			20046	< 0.8	6	47	< 0.8	33	8	56	18	< 1.5	<u>71</u>	< 1	37	28
5030447 Play Structure	G	0-15 cm (sand)	20047	< 0.8	< 5	30	< 0.8	33	8	38	9	< 1.5	38	< 1	41	32
			20048	< 0.8	< 5	27	< 0.8	29	8	29	7	< 1.5	31	< 1	40	28
5030448 Green Space	H	0-5 cm (soil)	20049	< 0.8	6	44	< 0.8	27	10	<u>140</u>	30	< 1.5	<u>200</u>	< 1	26	58
			20050	< 0.8	5	59	< 0.8	32	12	<u>140</u>	33	< 1.5	<u>220</u>	< 1	32	58
		5-10 cm (soil)	20051	< 0.8	7	44	< 0.8	30	7	53	13	< 1.5	<u>91</u>	< 1	31	34
			20052	< 0.8	5	42	< 0.8	28	6	56	14	< 1.5	<u>80</u>	< 1	30	30
		10-20 cm (soil)	20053	< 0.8	< 5	44	< 0.8	30	6	38	9	< 1.5	<u>62</u>	< 1	31	29
			20054	< 0.8	< 5	47	< 0.8	30	6	34	10	< 1.5	<u>61</u>	< 1	32	27
Table F (results in bold)				1.0	17	210	1.0	71	21	85	120	2.5	43	1.9	91	160
Table A (results in bold & underlined)				13	20	750	12	750	40	225	200	40	150	10	200	600
< - less than Method Detection Limit				Al, Be, Ca, Fe, Mo, Mn, and Sr results can be found in Table C4.4.												

Table C2.1: Concentrations of 13 Elements in Soil in µg/g Collected at Bell Park, 900 Paris Street, Sudbury - 2001.																
Station	Map ID	Soil Depth	Sample No.	Sb	As	Ba	Cd	Cr	Co	Cu	Pb	Mo	Ni	Se	V	Zn
5030449 Green Space	I	0-5 cm (soil)	20055	< 0.8	< 5	44	< 0.8	35	7	59	12	< 1.5	78	< 1	32	31
			20056	< 0.8	5	46	< 0.8	31	7	59	12	< 1.5	78	< 1	31	33
		5-10 cm (soil)	20057	< 0.8	< 5	46	< 0.8	32	6	49	12	< 1.5	64	< 1	32	28
			20058	< 0.8	< 5	58	< 0.8	35	7	42	12	< 1.5	62	< 1	34	29
		10-20 cm (soil)	20059	< 0.8	< 5	52	< 0.8	32	6	48	12	< 1.5	65	< 1	32	30
			20060	< 0.8	< 5	50	< 0.8	33	7	42	12	< 1.5	64	< 1	32	31
5030450 Green Space	J	0-5 cm (soil)	20061	< 0.8	7	67	< 0.8	42	11	120	22	< 1.5	160	1	35	43
			20062	< 0.8	7	80	< 0.8	45	11	110	27	< 1.5	150	1	38	61
		5-10 cm (soil)	20063	< 0.8	8	68	< 0.8	43	12	110	23	< 1.5	150	< 1	37	37
			20064	< 0.8	7	53	< 0.8	38	10	100	26	< 1.5	120	< 1	33	41
		10-20 cm (soil)	20065	< 0.8	9	60	< 0.8	37	12	150	23	< 1.5	210	1	34	40
			20066	< 0.8	5	66	< 0.8	45	14	160	33	< 1.5	220	1	35	46
5030451 Play Structure	K	0-15 cm (sand)	20067	< 0.8	< 5	29	< 0.8	28	11	39	5	< 1.5	41	< 1	33	24
			20068	< 0.8	< 5	25	< 0.8	28	10	38	6	< 1.5	39	< 1	30	24
5030457 Beach	Beach 1	0-15 cm (sand)	20007	< 0.8	< 5	20	< 0.8	36	10	45	8	< 1.5	78	< 1	36	32
			20008	< 0.8	< 5	18	< 0.8	31	10	34	8	< 1.5	63	< 1	29	32
5030458 Beach	Beach 2	0-15 cm (sand)	20009	< 0.8	< 5	16	< 0.8	32	11	28	4	< 1.5	58	< 1	30	27
			20010	2.2	< 5	14	< 0.8	29	10	27	4	< 1.5	55	< 1	27	25
5030459 Beach	Beach 3	0-10 cm (sand)	20011	< 0.8	< 5	18	< 0.8	34	11	36	4	< 1.5	61	< 1	34	23
			20012	< 0.8	< 5	18	< 0.8	30	12	43	4	< 1.5	77	< 1	31	24
5030460 Beach	Beach 4	0-15 cm (sand)	20013	< 0.8	< 5	20	< 0.8	32	10	33	5	< 1.5	47	< 1	36	27
			20014	< 0.8	10	22	< 0.8	32	10	32	4	< 1.5	50	< 1	33	26
5030461 Beach	Beach 5	0-15 cm (sand)	20015	< 0.8	< 5	18	< 0.8	31	8	31	5	< 1.5	47	< 1	35	26
			20016	< 0.8	< 5	17	< 0.8	30	8	32	5	< 1.5	49	< 1	28	26
5030452 Green Space	L	0-5 cm (soil)	20069	< 0.8	< 5	50	< 0.8	33	10	130	32	< 1.5	147	2	29	45
			20070	1.5	< 5	51	< 0.8	34	9	130	23	< 1.5	142	2	30	44
		5-10 cm (soil)	20071	< 0.8	< 5	46	< 0.8	36	9	78	16	< 1.5	100	< 1	34	35
			20072	< 0.8	5	48	< 0.8	40	9	84	19	< 1.5	112	< 1	35	37
		10-20 cm (soil)	20073	< 0.8	6	49	< 0.8	37	10	100	22	< 1.5	129	< 1	34	42
			20074	< 0.8	< 5	54	< 0.8	36	11	140	30	< 1.5	176	< 1	32	41
5030453 Play Structure	M	0-10 cm (bark chips)	20075	< 0.8	< 5	21	< 0.8	12	4	43	5	< 1.5	40	< 1	12	18
			20076	< 0.8	8	27	< 0.8	14	4	58	6	< 1.5	48	< 1	13	23
5030454 Play Structure	N	0-10 cm (bark chips)	20077	< 0.8	< 5	35	< 0.8	22	6	64	8	< 1.5	57	1.1	7	27
			20078	< 0.8	< 5	61	< 0.8	38	9	100	12	< 1.5	83	1.2	14	45
5030455 Green Space	O	0-5 cm (soil)	20079	1.1	41	130	2.5	51	100	1500	142	< 1.5	3230	8	36	130
			20080	1.1	45	140	3	50	100	1800	156	2.3	3284	11	34	140
		5-10 cm (soil)	20081	< 0.8	17	180	0.9	71	18	330	41	< 1.5	398	2	46	120
			20082	< 0.8	< 5	130	1	49	26	470	37	< 1.5	594	2	40	83
		10-20 cm (soil)	20083	< 0.8	< 5	130	< 0.8	56	9	45	8	< 1.5	82	< 1	45	66
			20084	< 0.8	9	120	< 0.8	50	9	85	8	< 1.5	90	< 1	44	56
5030456 Green Space	P	0-5 cm (soil)	20085	< 0.8	60	98	0.9	38	48	940	94	< 1.5	1215	4	32	63
			20086	0.9	58	110	1.3	34	56	1300	115	< 1.5	1513	5	29	68
		5-10 cm (soil)	20087	< 0.8	17	67	< 0.8	36	13	240	18	< 1.5	145	1	30	44
			20088	< 0.8	12	62	< 0.8	30	9	140	14	< 1.5	103	< 1	27	40
		10-20 cm (soil)	20089	< 0.8	6	59	< 0.8	40	10	78	7	< 1.5	55	< 1	32	40
			20090	< 0.8	6	57	< 0.8	39	9	68	7	< 1.5	60	< 1	32	38
Table F (results in bold)				1.0	17	210	1.0	71	21	85	120	2.5	43	1.9	91	160
Table A (results in bold & underlined)				13	20	750	12	750	40	225	200	40	150	10	200	600
< - less than Method Detection Limit				Al, Be, Ca, Fe, Mg, Mn, and Sr results can be found in Table C4.4.												

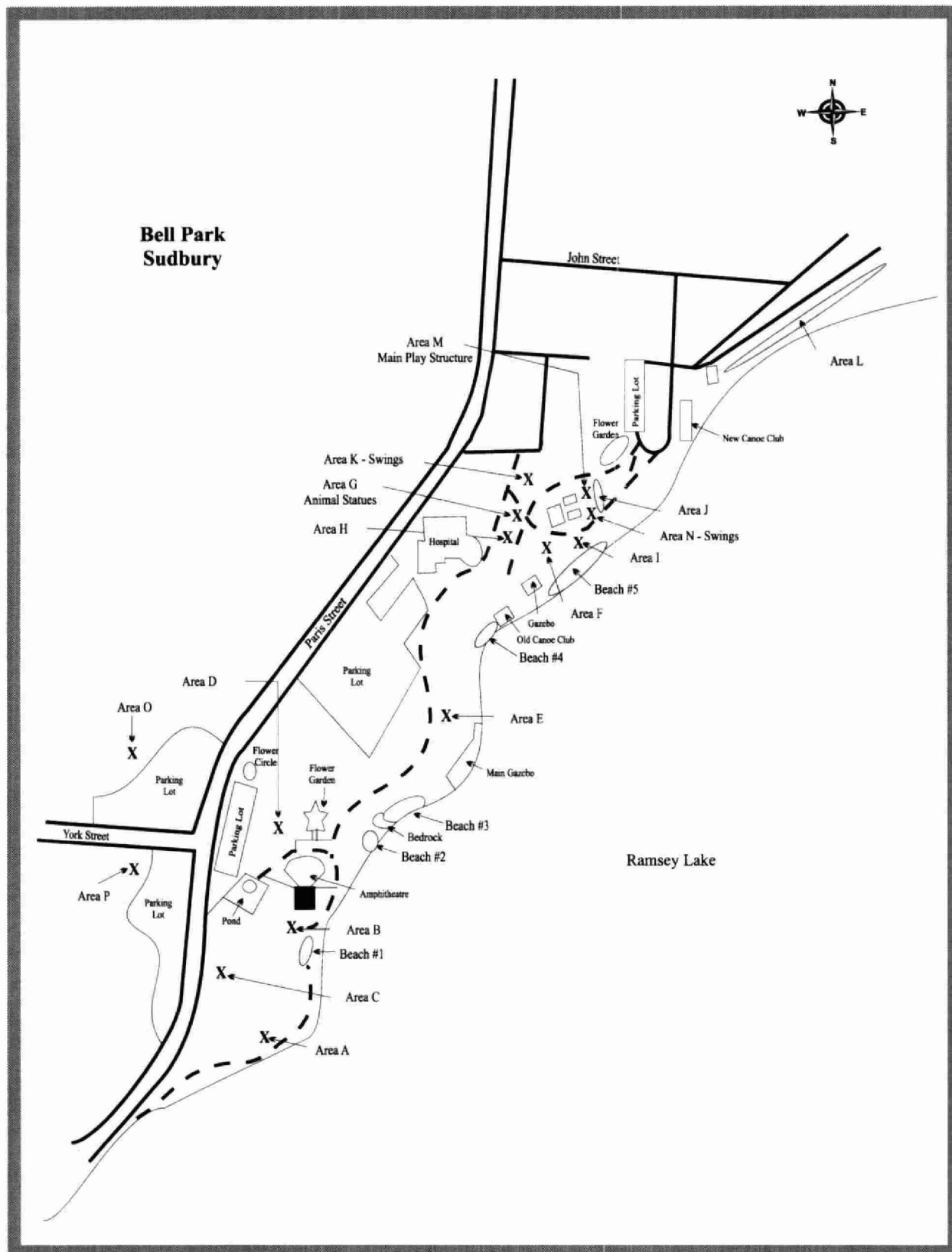


Figure C2.1: Bell Park, Sudbury Core - 2001.

C2.2 Copper Cliff (Nickel) Park & Gerry Mills Memorial Ball Park School Street, Copper Cliff

Copper Cliff (Nickel) Park and Gerry Mills Memorial Ball Park were sampled on September 17, 2001. Figure C2.1 details the sampling locations at this property. Samples were taken from six areas on the park properties. Areas A and B correspond to the baseball diamond infield and outfield, respectively, of Copper Cliff (Nickel) Park. Areas C and D correspond to the north and west grassed greenspace, respectively, of the same park. Areas E and F correspond to the baseball diamond infield and outfield, respectively, of Gerry Mills Memorial Ball Park, which was also sampled as part of Copper Cliff Public School (Appendix B). All soil samples were collected with a soil corer at depth, 0-5 cm, 5-10 cm and 10-20 cm, except Area A baseball diamond infield where it was only possible to collect the 0-5 cm layer due to compaction. All data were compared with the MOE Table F Ontario Soil Background Criteria and Table A Effects Based Soil Criteria.

Nickel (Ni) and copper (Cu) concentrations were elevated above the MOE Table A Effects Based Soil Criteria for all samples from these properties. Arsenic (As), cobalt (Co) and selenium (Se) were also elevated above the Table A Effects Based Soil Criteria at selected sites, while antimony (Sb), cadmium (Cd) and lead (Pb) exceeded the Table F Ontario Soil Background Criteria at fewer sites.

The highest nickel (Ni), copper (Cu), cobalt (Co) and arsenic (As) concentrations, 3649, 3400, 100 and 101 ppm, respectively, occurred in the 0-5 cm or 5-10 cm soil layer of the baseball diamond outfield of Gerry Mills Memorial Ball Park (Area F). Soil results for previous sampling of this baseball diamond, as part of Copper Cliff Public School (Appendix B), were substantially lower with nickel and copper concentrations as high as 1700 and 2000 ppm, respectively, for the surface soil layer of the baseball diamond outfield. The highest nickel and copper concentrations found at Copper Cliff Public School (Appendix B) were 2500 and 2900 ppm, respectively, from the green space just west of the baseball diamond. These concentrations are much higher than those found in green space Areas C and D of the Copper Cliff (Nickel) Park. These results give an indication of how variable metals concentrations can be within the soils of Copper Cliff.

Aside from Area A, depth samples were collected and for all areas except Area D, nickel (Ni) and copper (Cu) concentrations were highest at the surface and decreased with increasing depths. This observation is indicative of atmospheric deposition. All other metals listed, as well as aluminum (Al), calcium (Ca), iron (Fe), magnesium (Mg), manganese (Mn) and strontium (Sr) which are not listed, were below the MOE Table F Ontario Soil Background Criteria.

The soil metal results for Area F are higher than those reported historically, whereas the remaining soil samples are similar to historic findings. Previous MOE sampling of undisturbed soils approximately 1 km north, 1 km east southeast and 1 km southeast of Copper Cliff (Nickel) Park and Gerry Mills Memorial Ball Park, Stations 87, 96 and 106, respectively, of the MOE Sudbury 2000 Report for the City of Greater Sudbury (MOE 2001), indicated soil nickel (Ni) and copper (Cu) levels as high as 2125 and 2800 ppm, respectively. The majority of samples collected from these parks are within the concentration ranges found historically. The nickel (Ni) concentration range from historic sampling was 180 - 2125 ppm. Copper (Cu) concentrations ranged from 240 - 2800 ppm. Cobalt (Co) concentrations ranged from 14 - 63 and the arsenic (As) concentration range was 3.8 - 69 ppm. Historic MOE sampling in the Sudbury area was of undeveloped surface soils, which may not be representative of all of the materials sampled on this property.

Table C2.2: Concentrations of 13 Elements in Soil in µg/g Collected at Copper Cliff (Nickel) Park and Gerry Mills Park, School Street, Copper Cliff - 2001.

Station	Map ID	Soil Depth	Sample No.	Sb	As	Ba	Cd	Cr	Co	Cu	Pb	Mo	Ni	Se	V	Zn
5030462 Baseball Infield	A	0-5 cm (soil)	20091	< 0.8	5	53	< 0.8	30	10	180	11	< 1.5	162	< 1	29	31
			20092	< 0.8	5	58	< 0.8	29	10	180	12	< 1.5	155	< 1	27	29
5030463 Baseball Outfield	B	0-5 cm (soil)	20093	< 0.8	6	39	< 0.8	27	14	430	20	< 1.5	350	2	26	28
			20094	< 0.8	7	38	< 0.8	25	9	250	13	< 1.5	205	2	24	24
		5-10 cm (soil)	20095	< 0.8	7	37	< 0.8	26	8	190	13	< 1.5	146	< 1	25	27
			20096	< 0.8	5	43	< 0.8	28	8	180	10	< 1.5	139	< 1	27	26
		10-20 cm (soil)	20097	< 0.8	7	100	< 0.8	44	12	160	21	< 1.5	183	< 1	39	42
			20098	< 0.8	6	100	< 0.8	45	10	140	12	< 1.5	141	< 1	42	38
5030464 Green Space	C	0-5 cm (soil)	20099	< 0.8	8	70	1.4	41	22	990	37	< 1.5	599	3	34	49
			20100	< 0.8	9	76	1.2	43	22	990	36	< 1.5	595	4	36	48
		5-10 cm (soil)	20101	< 0.8	7	65	< 0.8	34	9	190	11	< 1.5	153	< 1	34	32
			20102	< 0.8	6	69	< 0.8	34	10	190	11	< 1.5	178	< 1	34	32
		10-20 cm (soil)	20103	< 0.8	7	73	< 0.8	36	11	160	12	< 1.5	165	1	34	37
			20104	< 0.8	< 5	52	< 0.8	29	7	86	8	< 1.5	92	< 1	28	27
5030467 Green Space	D	0-5 cm (soil)	20117	< 0.8	14	69	< 0.8	44	21	660	34	< 1.5	490	4	34	52
			20118	1	12	59	< 0.8	38	19	640	32	< 1.5	450	4	31	48
		5-10 cm (soil)	20119	< 0.8	6	36	< 0.8	25	8	180	10	< 1.5	160	< 1	27	32
			20120	< 0.8	< 5	32	< 0.8	25	6	110	9	< 1.5	120	< 1	26	26
		10-20 cm (soil)	20121	< 0.8	27	72	< 0.8	36	18	540	28	< 1.5	600	2	33	40
			20122	< 0.8	23	73	< 0.8	35	13	370	28	< 1.5	370	2	32	34
Gerry Mills Memorial Ball Park,School Street																
(* - 5030465 and 5030466 were also sampled separately as part of Copper Cliff School)																
5030465* Baseball Outfield	F	0-5 cm (soil)	20105	1.1	63	75	3.7	42	100	3400	120	< 1.5	3649	21	27	150
			20106	1	54	79	4	54	93	3300	130	< 1.5	2906	22	35	140
		5-10 cm (soil)	20107	1.8	101	61	1.1	35	49	970	44	< 1.5	1339	13	30	56
			20108	2.6	90	66	0.9	35	50	910	50	< 1.5	1200	< 1	29	56
		10-20 cm (soil)	20109	1.1	64	45	< 0.8	25	15	190	14	< 1.5	310	6	26	30
			20110	< 0.8	32	43	< 0.8	21	10	130	8	1.9	200	2	25	25
5030466* Baseball Infield	E	0-5 cm (soil)	20111	< 0.8	8	50	< 0.8	31	11	300	15	< 1.5	300	2	29	31
			20112	< 0.8	7	49	< 0.8	29	11	350	17	< 1.5	290	2	27	30
		5-10 cm (soil)	20113	< 0.8	13	37	< 0.8	26	10	210	11	< 1.5	170	1	26	26
			20114	< 0.8	10	38	< 0.8	26	8	170	10	< 1.5	130	1	26	25
		10-20 cm (soil)	20115	< 0.8	11	38	< 0.8	24	9	150	10	< 1.5	160	1	26	26
			20116	< 0.8	9	36	< 0.8	25	8	130	9	2.4	130	1	25	26
Table F (results in bold)				1.0	17	210	1.0	71	21	85	120	2.5	43	1.9	91	160
Table A (results in bold & underlined)				13	20	750	12	750	40	225	200	40	150	10	200	600
< - less than Method Detection Limit																
Al, Be, Ca, Fe, Mg, Mn, and Sr results can be found in Table C4.2.																

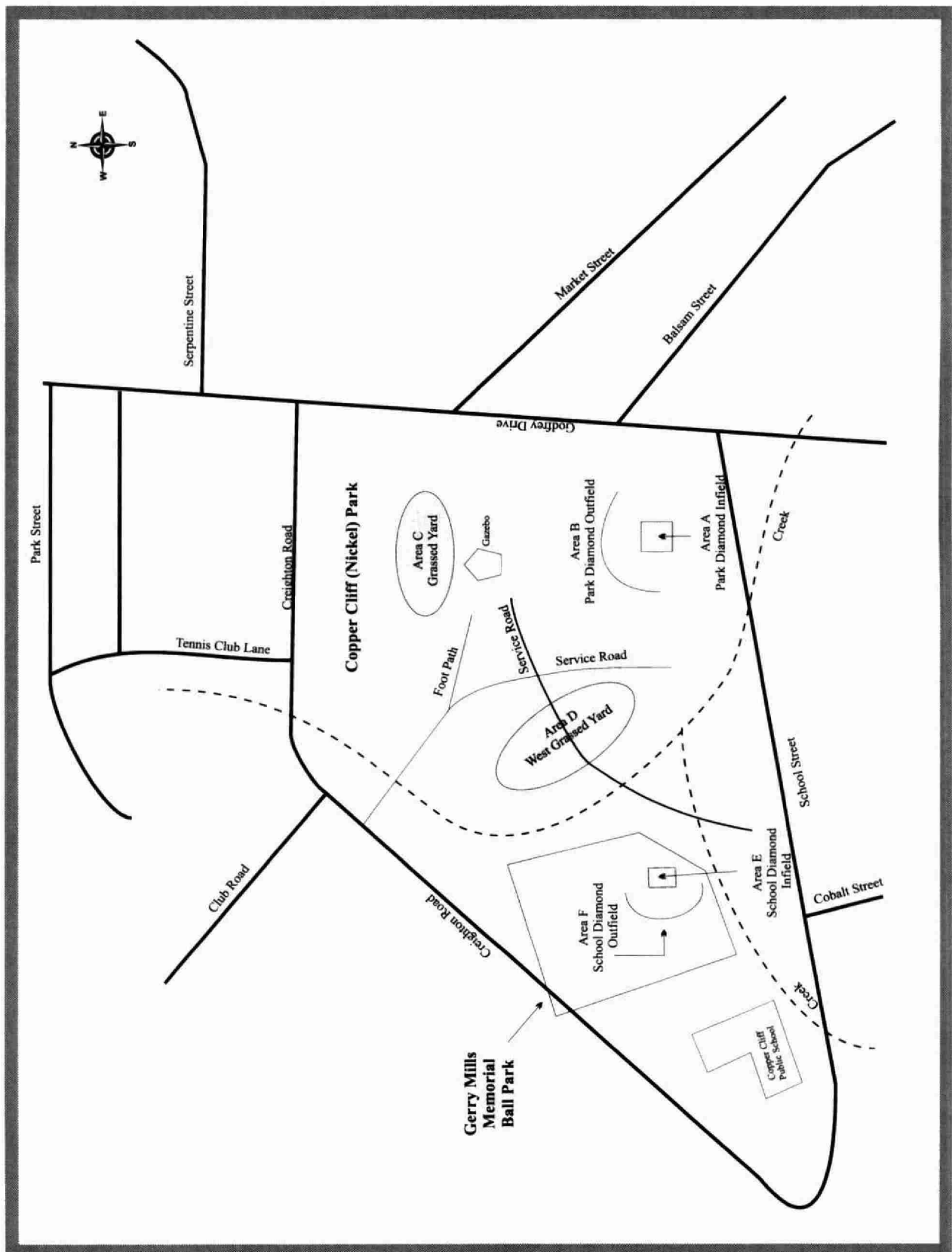


Figure C2.2: Copper Cliff (Nickel) Park & Gerry Mills Memorial Ball Park, Copper Cliff - 2001.

C2.3 Falconbridge Ball Fields & Centennial Park

63 Edison Street, Falconbridge

Falconbridge Ball Fields and Centennial Park were sampled on September 18, 2001. Samples were collected from eight areas on the park properties, Figure C2.3. Areas A and B correspond to sand samples collected from beneath the swings and slide beside the tennis courts, respectively, in Centennial Park. These play areas were also sampled as part of Teddy Bear Daycare (see Appendix B). Due to the constant mixing and homogeneous nature of the sanded area, samples were collected with hand trowels to represent the 0-15 cm depth. Areas C and D correspond to the west and east green spaces, respectively, in Centennial Park. Areas E and F correspond to the west baseball diamond infield and outfield, respectively. Areas G and H correspond to the east baseball diamond infield and outfield, respectively. These two ball diamonds belong to the Falconbridge Ball Fields. It was possible to sample all three depths, 0-5 cm, 5-10 cm and 10-20 cm, for all soil samples at both parks. All data were compared with the MOE Table F Ontario Soil Background Criteria and Table A Effects Based Soil Criteria.

Metal concentrations were not elevated in the sand from beneath the slide and swings. Similar results were found when these play areas were sampled as part of Teddy Bear Daycare #3 (Appendix B). The sand present is not likely native to the park property and is believed to have been introduced when the play areas were constructed. Thus, the sand was not expected to have elevated metal concentrations. Nickel (Ni), copper (Cu) and arsenic (As) concentrations were elevated above the MOE Table A Effects Based Soil Criteria for all other samples from Centennial Park and for the majority of those from the Falconbridge Ball Fields. Antimony (Sb), cadmium (Cd), chromium (Cr), lead (Pb), molybdenum (Mo) and selenium (Se) concentrations exceeded the Table F Ontario Soil Background Criteria at selected sites. The highest nickel (Ni), copper (Cu), cobalt (Co) and arsenic (As) concentrations, 2500, 1800, 130 and 101 ppm, respectively, occurred in the 0-5 cm or 5-10 cm soil layer of the west green space of Centennial Park (Area C). All other sampling areas on this property have substantially lower nickel, copper, cobalt and arsenic concentrations with average values of approximately 460, 390, 23 and 59 ppm, respectively. All other metals listed, as well as aluminum (Al), calcium (Ca), iron (Fe), magnesium (Mg), manganese (Mn) and strontium (Sr) which are not listed, were below the MOE Table F Ontario Soil Background Criteria.

The soil metal results for Area C are higher than those reported historically, whereas the remaining soil samples are within the concentration ranges found historically. Previous MOE sampling of undisturbed soils approximately 0.5 km north, 0.5 km northeast and 0.5 km southwest of Centennial Park and Falconbridge Ball Fields, Stations 23, 22 and 36, respectively, of the MOE Sudbury 2000 Report for the City of Greater Sudbury (MOE 2001), found nickel (Ni) and copper (Cu) surface soil concentration ranges of 68 to 1100 and 148 to 1300 ppm, respectively. The cobalt (Co) concentration range was 6 to 60 ppm and arsenic (As) concentrations ranged from 31 to 510. Historic MOE sampling in the Sudbury area was of undeveloped surface soils, which may not be representative of all of the materials sampled on this property.

Table C2.3: Concentrations of 13 Elements in Soil in µg/g Collected at Centennial Park and Falconbridge Ball Fields, 63 Edison Street, Falconbridge
 (*-5037474 & 5030475 were also sampled separately as part of Teddy Bear Daycare)

Station	Map ID	Soil Depth	Sample No.	Sb	As	Ba	Cd	Cr	Co	Cu	Pb	Mo	Ni	Se	V	Zn
5030474 Play Structure	A	0-5 cm (sand)	20147	< 0.8	< 5	20	< 0.8	24	6	18	3	< 1.5	26	< 1	29	15
			20148	< 0.8	< 5	21	< 0.8	24	6	19	4	< 1.5	30	< 1	30	16
5030475 Play Structure	B	0-5 cm (sand)	20149	< 0.8	< 5	21	< 0.8	22	5	12	6	< 1.5	20	< 1	24	12
			20150	< 0.8	< 5	17	< 0.8	19	4	10	2	< 1.5	17	< 1	22	12
5030476 Green Space	C	0-5 cm (soil)	20151	< 0.8	<u>71</u>	44	2.8	37	<u>86</u>	<u>1300</u>	67	< 1.5	<u>1800</u>	3	37	79
			20152	< 0.8	<u>84</u>	45	4.2	37	<u>130</u>	<u>1800</u>	110	2.8	<u>2500</u>	4	31	96
		5-10 cm (soil)	20153	< 0.8	<u>99</u>	42	1.2	46	30	<u>610</u>	58	< 1.5	<u>680</u>	3	45	41
			20154	< 0.8	<u>101</u>	46	1.4	32	36	<u>680</u>	69	< 1.5	<u>770</u>	3	35	39
		10-20 cm (soil)	20155	< 0.8	<u>63</u>	36	< 0.8	75	21	<u>330</u>	33	2.2	<u>470</u>	2	59	41
			20156	< 0.8	<u>74</u>	46	< 0.8	68	25	<u>370</u>	38	< 1.5	<u>550</u>	3	58	39
5030477 Green Space	D	0-5 cm (soil)	20157	< 0.8	<u>49</u>	28	1.7	26	<u>57</u>	<u>830</u>	44	< 1.5	<u>1200</u>	2	27	47
			20158	< 0.8	<u>56</u>	43	2.9	34	<u>72</u>	<u>1200</u>	65	2	<u>1500</u>	3	30	65
		5-10 cm (soil)	20159	< 0.8	<u>76</u>	44	< 0.8	34	26	<u>540</u>	53	< 1.5	<u>520</u>	2	32	31
			20160	< 0.8	<u>66</u>	42	< 0.8	32	24	<u>490</u>	49	< 1.5	<u>500</u>	2	32	30
		10-20 cm (soil)	20161	< 0.8	<u>85</u>	58	< 0.8	58	30	<u>500</u>	48	< 1.5	<u>610</u>	3	47	41
			20162	< 0.8	<u>66</u>	58	< 0.8	50	21	<u>360</u>	39	< 1.5	<u>430</u>	2	40	34
Falconbridge Ballfields,63 Edison Street																
Station	Map ID	Soil Depth	Sample No.	Sb	As	Ba	Cd	Cr	Co	Cu	Pb	Mo	Ni	Se	V	Zn
5030478 Baseball Outfield	H	0-5 cm (soil)	20163	< 0.8	<u>38</u>	36	< 0.8	39	23	<u>360</u>	28	1.6	<u>370</u>	2	35	32
			20164	< 0.8	<u>49</u>	38	< 0.8	39	28	<u>430</u>	33	1.8	<u>470</u>	2	33	38
		5-10 cm (soil)	20165	1	<u>120</u>	50	< 0.8	99	<u>46</u>	<u>880</u>	54	< 1.5	<u>880</u>	6	74	66
			20166	1.5	<u>100</u>	50	1.1	88	<u>58</u>	<u>950</u>	63	< 1.5	<u>1100</u>	4	67	67
		10-20 cm (soil)	20167	< 0.8	<u>130</u>	47	< 0.8	150	<u>42</u>	<u>750</u>	49	< 1.5	<u>860</u>	7	110	86
			20168	< 0.8	<u>110</u>	56	< 0.8	99	38	<u>710</u>	46	< 1.5	<u>990</u>	6	75	72
5030479 Baseball Infield	G	0-5 cm (soil)	20169	1.2	<u>54</u>	43	< 0.8	73	34	<u>480</u>	27	< 1.5	<u>690</u>	3	56	64
			20170	< 0.8	<u>31</u>	38	< 0.8	54	23	<u>300</u>	23	< 1.5	<u>400</u>	2	41	40
		5-10 cm (soil)	20171	< 0.8	<u>110</u>	48	< 0.8	140	28	<u>580</u>	42	< 1.5	<u>590</u>	8	110	88
			20172	< 0.8	<u>100</u>	42	< 0.8	140	30	<u>570</u>	38	< 1.5	<u>620</u>	7	98	76
		10-20 cm (soil)	20173	< 0.8	<u>100</u>	45	< 0.8	150	25	<u>500</u>	42	< 1.5	<u>490</u>	6	110	85
			20174	< 0.8	<u>120</u>	50	< 0.8	160	26	<u>480</u>	43	< 1.5	<u>530</u>	8	130	82
5030480 Baseball Outfield	F	0-5 cm (soil)	20175	< 0.8	<u>36</u>	44	0.9	40	27	<u>400</u>	25	< 1.5	<u>490</u>	1	35	31
			20176	< 0.8	<u>29</u>	33	< 0.8	37	21	<u>350</u>	20	< 1.5	<u>400</u>	1	34	30
		5-10 cm (soil)	20177	< 0.8	<u>86</u>	62	< 0.8	95	28	<u>510</u>	33	< 1.5	<u>600</u>	4	75	53
			20178	< 0.8	<u>98</u>	57	< 0.8	97	31	<u>580</u>	37	< 1.5	<u>690</u>	5	74	52
		10-20 cm (soil)	20179	< 0.8	<u>89</u>	76	< 0.8	100	24	<u>430</u>	34	< 1.5	<u>530</u>	3	77	52
			20180	< 0.8	<u>85</u>	54	< 0.8	100	16	<u>310</u>	28	< 1.5	<u>320</u>	4	79	45
5030481 Baseball Infield	E	0-5 cm (soil)	20181	< 0.8	< 5	22	< 0.8	26	8	55	6	< 1.5	68	< 1	26	21
			20182	< 0.8	<u>39</u>	32	< 0.8	59	15	100	14	< 1.5	<u>180</u>	2	51	31
		5-10 cm (soil)	20183	< 0.8	7	23	< 0.8	27	7	45	5	< 1.5	56	< 1	25	18
			20184	< 0.8	10	22	< 0.8	30	9	48	7	< 1.5	79	< 1	29	20
		10-20 cm (soil)	20185	< 0.8	<u>56</u>	30	< 0.8	79	20	220	18	< 1.5	<u>280</u>	4	57	59
			20186	< 0.8	<u>101</u>	42	< 0.8	120	27	<u>270</u>	30	< 1.5	<u>420</u>	4	93	61

Table F (results in bold)

1.0 17 210 1.0 71 21 85 120 2.5 43 1.9 91 160

Table A (results in bold & underlined)

13 20 750 12 750 40 225 200 40 150 10 200 600

< - less than Method Detection Limit

Al, Be, Ca, Fe, Mg, Mn, and Sr results can be found in Table C4.3.

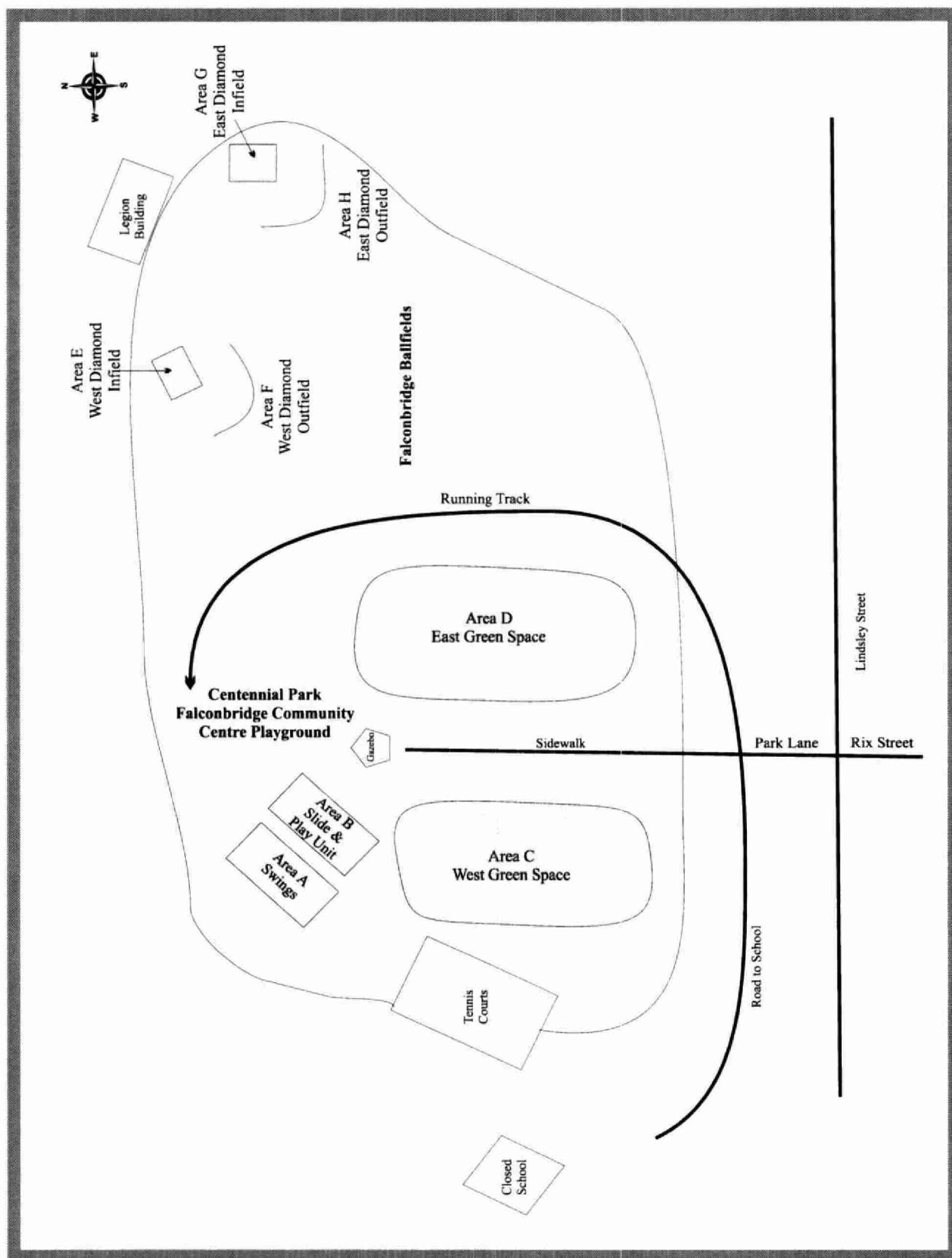


Figure C2.3: Centennial Park & Falconbridge Ball Fields, Falconbridge - 2001.

3. DATA RESULTS SUMMARIES

Table C.3.1: Summary of MOE Table F and Table A Soil Criteria Exceedences.

(The number of parks in each community with at least one sample exceeding the MOE Table F and Table A Soil Criteria)

Community	Number of Parks	Number of Nickel Exceedences		Number of Copper Exceedences		Number of Cobalt Exceedences		Number of Arsenic Exceedences		Number of Lead Exceedences	
		Table F	Table A	Table F	Table A	Table F	Table A	Table F	Table A	Table F	Table A
Coniston	5	4	3	3	3	1	1	0	0	0	0
Copper Cliff	6	6	6	6	6	3	2	0	0	1	0
Falconbridge	5	3	2	3	2	2	2	2	2	0	0
Sudbury Core	23	20	13	12	4	3	1	0	0	1	0
Inner Sudbury	63	54	16	13	5	3	0	0	0	0	0
Outer Sudbury	67	52	3	1	2	3	1	0	0	1	1
Greater Sudbury Total:	169	139	43	38	22	15	7	2	2	3	1

Table C.3.2: Summary Statistics for 0-5 cm Park Soil Samples in the City of Greater Sudbury

	Al	Sb	As	Ba	Be	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Mo	Ni	Se	Sr	V	Zn
Minimum	3900	0.4	2.5	17	0.3	0.4	1600	17	4	8	7400	1	1300	90	0.8	16	0.5	10	8	11
10th	6900	0.4	2.5	25	0.3	0.4	2900	22	4	26	11000	8	2000	140	0.8	38	0.5	24	23	19
1st quartile	8300	0.4	2.5	31	0.3	0.4	3550	25	5	35	12000	10	2300	160	0.8	48	0.5	30	26	23
Median	9650	0.4	2.5	38	0.3	0.4	4900	29	7	53	14000	13	3000	190	0.8	72	0.5	36	28	30
3rd quartile	11000	0.4	6	48	0.3	0.4	6800	35	11	95	16000	20	3800	240	0.8	121	0.5	43	32	38
95th	15000	0.4	16	75	0.3	0.9	11000	46	20	360	22000	34	6265	310	0.8	389	2	52	39	62
Maximum	27000	2.6	84	150	0.3	4.2	27000	73	130	4600	45000	130	13000	650	3	3649	22	80	56	150
Mean	10010	0.4	6	42	0.3	0.5	5640	31	10	130	14641	17	3310	209	0.8	146	0.8	37	29	33
Geometric mean	9664	0.4	4	39	0.2	0.4	5043	30	8	63	14186	14	3066	199	0.8	85	0.6	35	29	31
Sample std. dev.	2785	0.2	9	18	0.0	0.4	3034	8	11	374	4194	14	1475	74	0.2	320	2	10	6	16
CV (std. dev./mean)	28%	40%	149%	42%	0%	86%	54%	27%	116%	289%	29%	86%	45%	35%	26%	219%	192%	27%	20%	48%
Lower CI for the mean	9767	0.4	5	40	0.3	0.4	5376	30	9	97	14275	16	3181	203	0.8	119	0.7	36	29	32
Upper CI for the mean	10253	0.4	7	43	0.3	0.5	5905	31	11	162	15007	18	3439	216	0.8	174	0.9	37	30	35
Kurtosis	5.5	72.6	31.3	6.8		47.2	8.6	3.1	47.6	88.3	11.7	27.5	7.1	7.8	95.2	59.2	134.3	0.7	4.2	13.4
Skewness	1.5	7.8	5.1	2.1		6.6	2.3	1.4	6.3	8.8	2.7	4.5	2.2	2.2	9.3	7.1	10.8	0.3	1.2	2.8

n = 508

*Note: the standard-deviation and the confidence interval of the mean are valid only in the case of a simple random sampling***Table C.3.3:** Summary Statistics for 5-10 cm Park Soil Samples in the City of Greater Sudbury

	Al	Sb	As	Ba	Be	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Mo	Ni	Se	Sr	V	Zn
Minimum	3900	0.4	2.5	15	0.3	0.4	1400	17	3	7	7600	1	1300	92	0.8	14	0.5	13	13	10
10th	7200	0.4	2.5	24	0.3	0.4	2600	22	4	20	11000	6	1800	130	0.8	32	0.5	23	24	17
1st quartile	8550	0.4	2.5	30	0.3	0.4	3100	25	5	27	12000	8	2100	150	0.8	39	0.5	28	26	20
Median	9900	0.4	2.5	38	0.3	0.4	4100	28	7	42	14000	10	2600	190	0.8	58	0.5	35	29	27
3rd quartile	12000	0.4	6	49	0.3	0.4	5900	35	9	69	16000	13	3700	235	0.8	92	0.5	42	33	34
95th	16850	0.4	16	72	0.3	0.4	9485	48	14	190	21000	31	6200	330	0.8	210	1	50	41	56
Maximum	37000	2.6	120	210	0.6	1.4	22000	140	58	970	100000	91	13700	590	2	1339	13	65	110	160
Mean	10506	0.4	7	42	0.3	0.4	4800	31	8	71	15092	13	3149	204	0.8	92	0.7	35	30	29
Geometric mean	10064	0.4	4	39	0.3	0.4	4332	30	7	46	14264	11	2863	193	0.8	65	0.6	34	30	27
Sample std. dev.	3426	0.2	15	21	0.0	0.1	2442	12	6	111	7704	10	1632	73	0.1	130	0.8	9	9	14
CV (std. dev./mean)	33%	47%	220%	49%	9%	22%	51%	40%	71%	158%	51%	78%	52%	36%	12%	142%	126%	27%	29%	49%
Lower CI for the mean	10200	0.4	5	40	0.2	0.4	4581	30	7	61	14403	12	3003	197	0.7	80	0.6	34	30	28
Upper CI for the mean	10812	0.5	8	44	0.3	0.4	5018	33	8	81	15781	13	3295	210	0.8	103	0.7	36	31	31
Kurtosis	12.1	48.2	32.9	15.4	179.2	74.6	7.8	28.1	30.5	33.9	67.6	18.1	9.4	4.9	233.4	41.4	118.5	-0.4	25.1	16.1
Skewness	2.5	6.6	5.7	3.1	13.2	8.6	2.1	4.3	4.7	5.4	7.2	3.7	2.5	1.8	14.8	5.8	9.9	0.1	4.0	2.9

n = 484

Note: the standard-deviation and the confidence interval of the mean are valid only in the case of a simple random sampling

Table C.3.4: Summary Statistics for 10-20 cm Park Soil Samples in the City of Greater Sudbury

	Al	Sb	As	Ba	Be	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Mo	Ni	Se	Sr	V	Zn
Minimum	4900	0.4	2.5	14	0.3	0.4	1500	17	3	7	8300	2	1400	93	0.8	14	0.5	12	10	9
10th	6800	0.4	2.5	24	0.3	0.4	2300	21	4	17	11000	5	1800	140	0.8	28	0.5	23	23	16
1st quartile	8400	0.4	2.5	31	0.3	0.4	3100	25	5	25	12000	7	2100	160	0.8	37	0.5	28	26	20
Median	9900	0.4	2.5	40	0.3	0.4	3900	29	7	37	14000	10	2700	200	0.8	55	0.5	35	29	26
3rd quartile	12000	0.4	6	53	0.3	0.4	5300	37	9	65	17000	13	3700	250	0.8	89	0.5	42	35	34
95th	18000	0.4	23	89	0.3	0.4	8900	55	16	190	24000	34	6400	350	0.8	213	1	52	46	54
Maximum	31000	4.0	130	210	0.5	1.2	20000	160	42	750	110000	214	15500	600	3	990	8	68	130	230
Mean	10722	0.4	7	45	0.3	0.4	4580	33	8	64	16069	13	3272	211	0.8	85	0.7	35	32	29
Geometric mean	10166	0.4	4	41	0.3	0.4	4092	31	7	42	14839	10	2938	199	0.8	61	0.6	34	30	27
Sample std. dev.	3785	0.3	16	23	0.0	0.1	2582	16	5	87	10048	13	1842	76	0.2	106	0.7	10	11	16
CV (std. dev./mean)	35%	64%	216%	51%	7%	17%	56%	48%	60%	136%	63%	105%	56%	36%	23%	124%	106%	28%	35%	54%
Lower CI for the mean	10371	0.4	6	43	0.2	0.4	4340	31	7	56	15139	11	3101	204	0.8	75	0.6	34	31	28
Upper CI for the mean	11072	0.5	9	48	0.3	0.4	4819	34	8	72	17000	14	3443	218	0.8	95	0.7	36	33	31
Kurtosis	4.5	97.4	29.6	9.2	223.0	98.0	9.8	26.7	17.5	23.1	51.3	117.5	11.7	4.0	70.5	24.7	58.8	-0.4	26.3	57.3
Skewness	1.7	9.5	5.2	2.4	15.0	9.8	2.7	4.3	3.5	4.3	6.5	8.7	2.8	1.6	8.3	4.4	7.2	0.2	4.2	5.3

n = 451

*Note: the standard-deviation and the confidence interval of the mean are valid only in the case of a simple random sampling***Table C.3.5:** Summary Statistics for 0-15 cm Beach Sand Samples from Parks in the City of Greater Sudbury

	Al	Sb	As	Ba	Be	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Mo	Ni	Se	Sr	V	Zn
Minimum	4100	0.4	2.5	14	0.3	0.4	1300	18	4	7	10000	3	2200	140	0.8	14	0.5	10	18	10
10th	4920	0.4	2.5	17	0.3	0.4	2210	23	7	21	12000	4	2720	170	0.8	29	0.5	17	23	16
1st quartile	5200	0.4	2.5	19	0.3	0.4	2600	24	8	23	13000	4	3100	180	0.8	32	0.5	19	28	18
Median	6050	0.4	2.5	24	0.3	0.4	3000	30	9	29	15000	5	3550	190	0.8	38	0.5	24	31	23
3rd quartile	7300	0.4	2.5	27	0.3	0.4	3600	32	9	36	17000	6	4000	210	0.8	63	0.5	29	34	26
95th	8980	0.4	2.5	35	0.3	0.4	4255	35	9	31	18000	6	4185	250	0.8	40	1.0	38	40	29
Maximum	12000	2.2	10	74	0.3	0.4	4600	39	12	130	19000	21	4500	250	0.8	170	1.0	39	40	39
Mean	6674	0.4	3.1	27	0.3	0.4	3093	29	9	36	15048	6	3517	197	0.8	49	0.6	25	31	23
Geometric mean	6454	0.4	2.9	24	0.3	0.4	3010	28	8	30	14841	5	3462	195	0.8	43	0.6	23	30	22
Sample std. dev.	1.6	42.0	7.1	5.3			0.0	-0.6	1.8	7.0	-0.7	5.7	-0.7	-0.3		6.5	2.6	-0.5	0.1	0.1
CV (std. dev./mean)	1.3	6.5	2.7	2.3			0.0	0.1	-1.0	2.4	-0.2	2.4	-0.4	0.3		2.1	2.1	0.2	-0.4	0.4
Lower CI for the mean	28%	63%	54%	51%	0%	0%	23%	17%	21%	69%	16%	64%	17%	14%	0%	58%	31%	29%	16%	29%
Upper CI for the mean	1850	0.3	1.7	13	0.0	0.0	690	5	2	24	2430	4	600	28	0.0	28	0.2	7	5	6
Kurtosis	6090	0.4	2.6	22	0.3	0.4	2875	27	8	28	14281	5	3328	189	0.8	40	0.5	22	29	21
Skewness	7257	0.5	3.7	31	0.3	0.4	3310	30	9	43	15814	7	3706	206	0.8	58	0.6	27	32	25

n = 42

Note: the standard-deviation and the confidence interval of the mean are valid only in the case of a simple random sampling

Table C.3.6: Summary Statistics for 0 -15 cm Play Structure Sand Samples from Parks in the City of Greater Sudbury

	Al	Sb	As	Ba	Be	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Mo	Ni	Se	Sr	V	Zn
Minimum	2700	0.4	2.5	10	0.3	0.4	1500	12	4	6	6200	2	1400	110	0.8	13	0.5	10	7	10
10th	4800	0.4	2.5	18	0.3	0.4	2100	23	6	15	11000	3	2700	150	0.8	20	0.5	16	24	16
1st quartile	5500	0.4	2.5	21	0.3	0.4	2400	25	7	19	13000	4	3000	170	0.8	24	0.5	19	27	20
Median	6600	0.4	2.5	26	0.3	0.4	2800	29	8	29	16000	5	3600	190	0.8	29	0.5	23	33	25
3rd quartile	7950	0.4	2.5	34	0.3	0.4	3350	35	10	42	18000	6	4200	230	0.8	37	0.5	28	39	29
95th	10000	0.4	6	45	0.3	0.4	4400	47	13	71	23000	10	5420	300	0.8	85	1	39	52	38
Maximum	13000	2.3	34	67	0.3	0.4	6500	59	22	210	27000	24	7200	370	2	680	2	47	62	81
Mean	6912	0.4	3.2	28	0.3	0.4	2966	31	8	35	15989	5	3712	204	0.8	40	0.6	24	34	26
Geometric mean	6678	0.4	2.8	27	0.2	0.4	2875	30	8	29	15538	5	3600	199	0.8	32	0.5	24	33	24
Sample std. dev.	1825	0.1	3.0	10	0.0	0.0	775	8	3	27	3811	3	935	51	0.1	53	0.2	7	9	8
CV (std. dev./mean)	26%	34%	94%	34%	0%	0%	26%	26%	31%	77%	24%	54%	25%	25%	18%	133%	34%	29%	27%	32%
Lower CI for the mean	6722	0.4	2.9	27	0.3	0.4	2885	30	8	33	15591	5	3615	199	0.8	34	0.5	24	33	25
Upper CI for the mean	7103	0.4	4	29	0.3	0.4	3047	32	9	38	16386	6	3810	210	0.8	45	0.6	25	35	27
Kurtosis	0.1	116.9	64.5	1.0			1.9	0.6	4.1	17.3	0.0	10.9	1.3	0.1	70.9	77.1	19.5	0.3	0.2	7.4
Skewness	0.6	10.5	7.3	0.9			1.2	1.0	1.3	3.5	0.5	2.6	0.8	0.8	8.5	7.8	3.9	0.7	0.6	1.7

n = 357

*Note: the standard-deviation and the confidence interval of the mean are valid only in the case of a simple random sampling***Table C.3.7:** Summary Statistics for 0-5 cm Baseball Infield Crushed Stone Samples from Parks in the City of Greater Sudbury

	Al	Sb	As	Ba	Be	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Mo	Ni	Se	Sr	V	Zn
Minimum	5100	0.4	2.5	18	0.3	0.4	2800	17	3	11	8200	2	2100	140	0.8	18	0.5	22	11	10
10th	5800	0.4	2.5	26	0.3	0.4	4200	21	4	15	10000	4	3200	150	0.8	22	0.5	37	19	15
1st quartile	6900	0.4	2.5	30	0.3	0.4	6550	23	5	18	11000	5	3800	160	0.8	27	0.5	45	23	18
Median	8000	0.4	2.5	40	0.3	0.4	11000	26	6	23	13000	6	6000	190	0.8	34	0.5	74	26	23
3rd quartile	9400	0.4	2.5	51	0.3	0.4	19000	29	8	36	14000	7	9050	215	0.8	43	0.5	140	29	28
95th	12000	0.4	9	71	0.3	0.4	142500	37	10	72	19000	10	21250	280	2	136	1	270	36	34
Maximum	26000	1.3	17	200	0.6	0.4	250000	43	17	300	27000	15	26000	510	3	350	1	340	40	64
Mean	8402	0.4	3.3	44	0.3	0.4	27509	27	7	34	13360	6	7752	200	1.0	45	0.6	106	26	23
Geometric mean	8082	0.4	2.9	40	0.3	0.4	13442	26	6	26	13047	6	6387	194	0.9	37	0.5	82	25	22
Sample std. dev.	2789	0.1	2.9	25	0.0	0.0	46752	5	2	42	3079	2	5392	54	0.5	47	0.2	80	6	8
CV (std. dev./mean)	33%	30%	88%	58%	16%	0%	171%	20%	34%	123%	23%	37%	70%	27%	55%	106%	28%	76%	22%	34%
Lower CI for the mean	7887	0.4	3	40	0.2	0.4	18874	26	6	27	12792	6	6756	190	0.9	36	0.5	92	25	22
Upper CI for the mean	8917	0.4	4	49	0.3	0.4	36145	28	7	42	13929	7	8748	210	1.1	54	0.6	121	27	25
Kurtosis	18.5	35.4	13.2	22.5	59.4		10.2	0.5	5.9	26.2	3.4	2.1	2.4	11.9	5.1	26.7	5.0	0.5	0.4	6.7
Skewness	3.5	5.9	3.8	4.1	7.7		3.2	0.8	1.8	4.9	1.4	1.2	1.7	2.7	2.4	4.8	2.6	1.2	-0.1	1.8

n = 116

Note: the standard-deviation and the confidence interval of the mean are valid only in the case of a simple random sampling

Table C.3.8: Summary Statistics for 0-5 cm Park Soil Samples in the Outer Sudbury Communities

	Al	Sb	As	Ba	Be	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Mo	Ni	Se	Sr	V	Zn
Minimum	4600	0.4	2.5	19	0.3	0.4	1600	18	4	9	9300	4	1600	110	0.8	19	0.5	13	8	13
10th	6960	0.4	2.5	25	0.3	0.4	2860	22	4	20	11000	8	1800	140	0.8	33	0.5	24	23	19
1st quartile	8500	0.4	2.5	28	0.3	0.4	3300	24	5	26	12000	9	2100	160	0.8	39	0.5	31	26	22
Median	9700	0.4	2.5	34	0.3	0.4	4300	27	5	33	13000	11	2400	180	0.8	47	0.5	36	28	27
3rd quartile	11000	0.4	2.5	43	0.3	0.4	5850	32	7	42	15000	14	3600	230	0.8	56	0.5	42	31	36
95th	15200	0.4	9	71	0.3	0.4	9520	45	12	55	21000	27	5440	420	0.8	78	0.5	49	41	59
Maximum	27000	1.6	16	150	0.3	3.8	19000	67	22	74	29000	66	10000	650	2	151	1.0	61	55	78
Mean	10155	0.4	4	39	0.3	0.4	4921	29	6	34	13797	13	2931	212	0.8	50	0.5	36	29	31
Geometric mean	9762	0.4	3	36	0.2	0.4	4479	29	6	32	13428	12	2693	198	0.8	47	0.5	35	28	29
Sample std. dev.	3201	0.1	3	20	0.0	0.3	2460	8	3	12	3563	7	1414	93	0.1	17	0.1	9	7	13
CV (std. dev./mean)	32%	25%	80%	51%	0%	70%	50%	28%	47%	34%	26%	57%	48%	44%	9%	35%	20%	24%	24%	42%
Lower CI for the mean	9679	0.4	3.1	36	0.3	0.4	4555	28	6	32	13267	12	2720	198	0.7	47	0.5	35	28	29
Upper CI for the mean	10632	0.4	4	42	0.3	0.5	5287	31	7	36	14327	14	3141	225	0.8	52	0.5	38	30	33
Kurtosis	8.2	102	10.4	11.6		101.3	9.0	4.6	6.7	0.6	4.4	16.0	5.9	6.8	177	7.8	17.7	0.1	4.4	2.7
Skewness	2.3	9.7	3.3	3.1		9.9	2.4	1.9	2.4	0.6	1.9	3.2	2.2	2.4	13.3	2.0	4.4	0.0	1.3	1.6

n = 177

*Note: the standard-deviation and the confidence interval of the mean are valid only in the case of a simple random sampling***Table C.3.9:** Summary Statistics for 0-5 cm Park Soil Samples in the Inner Sudbury Communities

	Al	Sb	As	Ba	Be	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Mo	Ni	Se	Sr	V	Zn
Minimum	4900	0.4	2.5	18	0.3	0.4	1800	17	4	13	9100	3	1300	90	0.8	25	0.5	10	17	13
10th	6900	0.4	2.5	26	0.3	0.4	2900	22	5	32	11000	7	2200	140	0.8	45	0.5	23	22	19
1st quartile	8200	0.4	2.5	31	0.3	0.4	4000	24	6	45	12000	10	2400	160	0.8	62	0.5	29	25	25
Median	9600	0.4	2.5	40	0.3	0.4	5000	28	8	60	14000	13	3200	200	0.8	82	0.5	36	28	30
3rd quartile	11000	0.4	6	49	0.3	0.4	6600	34	9	79	15000	17	3800	240	0.8	110	0.5	44	32	36
95th	15000	0.4	12	74	0.3	0.4	12000	45	14	168	19000	26	6250	318	0.8	247	1.0	56	37	51
Maximum	17000	2.6	27	95	0.3	1.0	27000	57	20	230	22000	50	13000	510	0.8	304	1.0	80	42	77
Mean	9911	0.4	5	42	0.3	0.4	5741	30	8	70	14018	14	3438	211	0.8	96	0.6	37	29	31
Geometric mean	9612	0.4	4	39	0.2	0.4	5154	29	8	61	13765	13	3211	202	0.8	84	0.5	35	28	29
Sample std. dev.	2485	0.2	4	15	0.0	0.1	3093	7	3	41	2727	7	1465	67	0.0	57	0.2	11	5	11
CV (std. dev./mean)	25%	51%	81%	36%	0%	15%	54%	25%	35%	58%	20%	50%	43%	32%	0%	59%	29%	30%	17%	34%
Lower CI for the mean	9551	0.4	4	40	0.3	0.4	5293	29	8	64	13622	13	3226	201	0.8	88	0.5	35	28	29
Upper CI for the mean	10272	0.5	5	44	0.3	0.4	6190	31	9	76	14413	15	3651	221	0.8	105	0.6	38	29	32
Kurtosis	0.3	60.4	7.7	1.3		90.5	13.1	1.3	1.3	3.2	0.3	6.2	11.2	4.3		3.1	3.7	1.1	0.1	3.3
Skewness	0.7	7.4	2.4	1.1		9.6	2.8	1.1	1.0	1.7	0.7	2.0	2.6	1.5		1.8	2.4	0.6	0.5	1.4

n = 186

Note: the standard-deviation and the confidence interval of the mean are valid only in the case of a simple random sampling

Table C.3.10: Summary Statistics for 0-5 cm Park Soil Samples in the Sudbury Core

	Al	Sb	As	Ba	Be	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Mo	Ni	Se	Sr	V	Zn
Minimum	4000	0.4	2.5	17	0.3	0.4	2100	19	5	17	9900	1	2000	110	0.8	24	0.5	13	21	13
10th	7580	0.4	2.5	27	0.3	0.4	3040	24	6	48	12000	8	2380	150	0.8	60	0.5	27	24	21
1st quartile	8600	0.4	2.5	35	0.3	0.4	4500	27	7	70	13000	12	2900	170	0.8	83	0.5	31	26	26
Median	10000	0.4	2.5	44	0.3	0.4	5600	31	10	110	15000	20	3200	210	0.8	130	0.5	37	29	37
3rd quartile	12000	0.4	6	55	0.3	0.4	7850	36	12	160	17000	26	3950	250	0.8	195	1	46	34	46
95th	15000	0.4	8	74	0.3	0.9	11000	45	17	240	20000	41	6230	293	0.8	290	2	52	37	67
Maximum	20000	1.5	32	120	0.3	1.7	16000	50	55	950	30000	101	9800	310	0.8	1528	4	60	40	140
Mean	10334	0.4	5	46	0.3	0.5	6293	32	11	134	15378	21	3683	210	0.8	162	0.8	38	30	38
Geometric mean	9932	0.4	4	43	0.3	0.4	5724	31	10	108	15102	17	3484	204	0.8	127	0.7	37	29	35
Sample std. dev.	2795	0.2	4	18	0.0	0.2	2785	7	6	114	3111	14	1379	51	0	171	0.5	10	4	18
CV (std. dev./mean)	27%	35%	89%	39%	0%	46%	44%	22%	60%	85%	20%	65%	38%	24%	0%	106%	70%	25%	15%	47%
Lower CI for the mean	9761	0.4	4	43	0.3	0.4	5722	31	9	111	14741	18	3401	200	0.8	127	0.7	36	29	35
Upper CI for the mean	10906	0.5	6	50	0.3	0.5	6863	33	12	157	16015	24	3966	221	0.8	197	0.9	40	31	42
Kurtosis	0.8	36.0	26.6	4.1		12.7	1.6	-0.4	27.7	29.3	4.5	12.3	4.7	-0.9		44.0	9.4	-0.1	-0.7	10.3
Skewness	0.3	6.0	4.6	1.5		3.4	1.1	0.4	4.4	4.6	1.6	2.5	1.9	0.2		5.9	2.9	-0.2	0.3	2.4

n = 95

*Note: the standard-deviation and the confidence interval of the mean are valid only in the case of a simple random sampling***Table C.3.11:** Summary Statistics for 0-5 cm Park Soil Samples in Coniston

	Al	Sb	As	Ba	Be	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Mo	Ni	Se	Sr	V	Zn
Minimum	3900	0.4	2.5	20	0.3	0.4	2000	17	4	8	7400	2	1600	110	0.8	16	0.5	18	18	11
10th	5800	0.4	2.5	28	0.3	0.4	2490	20	5	14	11000	3	1960	119	0.8	23	0.5	22	22	15
1st quartile	6900	0.4	2.5	32	0.3	0.4	3000	23	6	26	11000	6	2200	140	0.8	40	0.5	26	24	16
Median	7650	0.4	7	37	0.3	0.4	6300	26	12	99	13500	11	2900	175	0.8	195	0.5	32	25	30
3rd quartile	9300	0.4	13	46	0.3	0.4	9400	28	24	450	15000	20	3400	200	0.8	610	1.0	35	27	41
95th	11000	0.4	17	60	0.3	1.1	15400	35	40	614	17350	41	9220	297	0.8	888	1.4	45	30	52
Maximum	11000	0.4	19	81	0.3	1.3	18000	36	43	620	18000	42	10000	310	0.8	940	2.0	45	31	58
Mean	7836	0.4	8	40	0.3	0.5	6979	26	16	211	13243	16	3636	184	0.8	300	0.7	32	25	30
Geometric mean	7583	0.4	6	38	0.3	0.5	5761	25	12	93	12961	11	3122	174	0.8	141	0.6	31	25	26
Sample std. dev.	1912	0.0	6	14	0.0	0.3	4386	5	12	221	2612	12	2433	62	0.0	313	0.4	8	3	14
CV (std. dev./mean)	25%	0%	74%	36%	0%	54%	65%	20%	83%	109%	20%	84%	69%	35%	0%	108%	60%	26%	13%	50%
Lower CI for the mean	6690	0.4	5	31	0.3	0.4	4351	23	8	79	11678	8	2178	146	0.8	112	0.5	27	23	21
Upper CI for the mean	8981	0.4	11	48	0.3	0.7	9607	29	23	343	14808	23	5094	221	0.8	487	1.0	37	27	39
Kurtosis	0.1		-1.1	5.4		3.3	1.6	0.2	0.3	-0.8	0.6	0.4	3.4	-0.2		-0.3	6.5	-0.5	0.9	-1.1
Skewness	0.0		0.6	1.9		2.0	1.3	0.4	1.2	0.9	-0.3	1.1	2.1	0.9		1.0	2.4	0.1	-0.1	0.4

n = 14

Note: the standard-deviation and the confidence interval of the mean are valid only in the case of a simple random sampling

Table C.3.12: Summary Statistics for 0-5 cm Park Soil Samples in Falconbridge

	Al	Sb	As	Ba	Be	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Mo	Ni	Se	Sr	V	Zn
Minimum	6500	0.4	2.5	22	0.3	0.4	3100	24	8	44	12000	6	1800	130	0.8	68	0.5	22	25	17
10th	8050	0.4	5	28	0.3	0.4	3400	26	10	54	12000	10	1940	140	0.8	87	0.5	25	26	20
1st quartile	8800	0.4	12	29	0.3	0.4	3500	26	15	88	13000	14	2500	150	0.8	120	1	27	26	25
Median	9300	0.4	34	36	0.3	0.4	3550	37	22	325	20500	22	2850	170	0.8	385	2	32	31	31
3rd quartile	9800	0.4	49	43	0.3	0.9	7600	39	34	480	27000	33	3400	230	2	690	2	34	35	47
95th	11450	0.5	73	44	0.3	3.1	10450	61	93	1375	41600	73	5455	268	2	1905	3	35	52	82
Maximum	14000	1.2	84	45	0.3	4.2	13000	73	130	1800	45000	110	6900	310	3	2500	4	35	56	96
Mean	9456	0.4	34	35	0.3	1.0	5206	38	34	456	21722	31	3189	187	1.2	601	2	31	33	39
Geometric mean	9342	0.4	23	35	0.3	0.6	4635	36	24	255	19857	23	2978	181	1.0	335	1	30	32	35
Sample std. dev.	1510	0.2	23	7	0.0	1.1	2871	13	32	490	9717	26	1300	48	0.6	675	1	4	8	22
CV (std. dev./mean)	16%	42%	70%	20%	0%	116%	57%	34%	97%	110%	46%	86%	42%	27%	56%	116%	63%	14%	26%	57%
Lower CI for the mean	8683	0.4	22	32	0.3	0.4	3737	31	17	206	16750	17	2523	162	0.8	256	1	29	29	28
Upper CI for the mean	10228	0.5	46	39	0.3	1.6	6675	44	50	707	26695	44	3854	211	1.5	947	2	33	37	50
Kurtosis	4.0	18.0	-0.4	-1.2		2.9	1.5	2.4	3.7	1.9	0.5	4.1	2.5	0.6	0.6	2.2	-0.4	0.0	2.1	1.2
Skewness	1.2	4.2	0.4	-0.2		1.9	1.6	1.5	2.0	1.6	1.1	2.0	1.6	1.2	1.3	1.7	0.7	-1.0	1.6	1.4

n = 18

Note: the standard-deviation and the confidence interval of the mean are valid only in the case of a simple random sampling

Table C.3.13: Summary Statistics for 0-5 cm Park Soil Samples in Copper Cliff

	Al	Sb	As	Ba	Be	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Mo	Ni	Se	Sr	V	Zn
Minimum	7300	0.4	2.5	34	0.3	0.4	2700	25	9	250	13000	13	2400	150	0.8	205	1.0	17	24	24
10th	7960	0.4	6	38	0.3	0.4	4140	28	11	314	13000	16	2610	177	0.8	254	1.0	30	25	29
1st quartile	9100	0.4	7	40	0.3	0.4	4300	29	12	350	13000	17	3000	180	0.8	300	2	35	27	30
Median	9950	0.4	8	56	0.3	0.4	6050	37	17	610	17500	25	3600	195	0.8	455	3	39	30	43
3rd quartile	11000	0.4	14	70	0.3	1.4	8900	43	22	990	25000	37	4000	240	0.8	620	6	43	34	55
95th	13000	1.0	55	81	0.3	3.7	18600	56	94	4260	31350	122	4625	265	2.4	3017	21	47	36	142
Maximum	13000	1.1	63	90	0.3	4.0	22000	64	100	4600	39000	130	5900	290	3.4	3649	22	49	36	150
Mean	10150	0.5	16	57	0.3	1.2	7622	38	32	1274	19500	45	3611	207	1.0	959	5	39	31	56
Geometric mean	9998	0.5	11	55	0.3	0.8	6506	37	22	764	18312	32	3520	204	0.9	593	3	38	30	47
Sample std. dev.	1756	0	17	16	0	1	4938	10	31	1430	7396	42	833	36	0.7	1076	6	8	4	38
CV (std. dev./mean)	18%	48%	110%	29%	0%	105%	67%	27%	101%	115%	39%	95%	24%	18%	71%	116%	121%	20%	14%	69%
Lower CI for the mean	9251	0.4	7	49	0.3	0.6	5095	33	16	542	15716	24	3185	189	0.6	408	2	35	28	37
Upper CI for the mean	11049	0.6	24	66	0.3	1.8	10149	43	48	2006	23284	67	4037	225	1.3	1509	9	42	33	76
Kurtosis	-0.8	2.2	3.5	-1.0		0.6	3.4	0.6	0.3	0.7	0.8	0.0	1.7	-0.1	9.6	1.0	2.7	2.2	-1.6	1.4
Skewness	0.2	2.0	2.1	0.3		1.4	1.9	0.9	1.5	1.5	1.2	1.4	0.8	0.7	3.1	1.6	1.9	-1.2	-0.1	1.6

n = 18

Note: the standard-deviation and the confidence interval of the mean are valid only in the case of a simple random sampling

4. ANALYTICAL RESULTS

Table C4.1: Outer Community Parks

Station	Map ID	Soil Depth	Sample No.	Al	Sb	As	Ba	Be	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Mo	Ni	Se	Sr	V	Zn
Community of Blezard Valley																							
Carrefour Sen. Real Belisle Sports Complex, 2777 Main St. (Also known as Blezard Valley Playground)																							
5030668 Green Space	A	0-5 cm (soil)	19856	10000	< 0.8	5	28	< 0.5	< 0.8	3200	24	4	42	13000	10	1700	150	< 1.5	50	< 1	38	29	19
			19857	11000	< 0.8	6	34	< 0.5	< 0.8	3300	24	4	44	13000	12	1800	160	< 1.5	51	1	39	28	26
		5-10 cm (soil)	19858	12000	< 0.8	< 5	41	< 0.5	< 0.8	3900	30	5	44	14000	11	1900	160	< 1.5	54	< 1	45	31	20
			19859	12000	< 0.8	6	88	< 0.5	< 0.8	4100	28	5	50	14000	16	1900	170	< 1.5	61	< 1	46	30	56
		10-20 cm (soil)	19860	11000	< 0.8	6	37	< 0.5	< 0.8	4000	28	5	45	13000	15	1900	170	< 1.5	56	< 1	44	30	32
			19861	11000	< 0.8	5	40	< 0.5	< 0.8	4000	27	4	45	14000	20	1900	160	< 1.5	58	< 1	47	31	43
5030669 Play Structure	B	0-5 cm (sand)	19862	11000	< 0.8	< 5	45	< 0.5	< 0.8	4000	52	9	40	25000	5	5000	330	< 1.5	30	< 1	40	57	27
			19863	10000	< 0.8	< 5	42	< 0.5	< 0.8	3500	55	10	54	24000	7	5600	320	< 1.5	32	< 1	30	56	38
5030670 Green Space	C	0-5 cm (sand)	19864	8300	< 0.8	< 5	32	< 0.5	< 0.8	3100	42	8	40	19000	9	4700	280	< 1.5	27	< 1	27	47	27
			19865	8400	< 0.8	< 5	34	< 0.5	< 0.8	2900	44	9	46	22000	6	4700	280	< 1.5	29	< 1	24	55	31
5030671 Baseball Infield	D	0-5 cm (gravel)	19866	5700	< 0.8	< 5	25	< 0.5	< 0.8	6100	24	4	13	11000	4	3500	160	< 1.5	19	< 1	44	24	14
			19867	5800	< 0.8	< 5	25	< 0.5	< 0.8	5800	26	4	12	11000	3	3400	150	< 1.5	18	< 1	45	25	12
5030672 Baseball Outfield	E	0-5 cm (soil)	19868	9000	< 0.8	< 5	32	< 0.5	< 0.8	4300	23	4	46	10000	13	1900	140	< 1.5	68	< 1	43	26	22
			19869	9300	< 0.8	< 5	29	< 0.5	< 0.8	4500	23	4	45	11000	13	2000	140	< 1.5	63	< 1	42	27	34
		5-10 cm (soil)	19870	9300	< 0.8	< 5	28	< 0.5	< 0.8	3700	22	4	34	11000	10	1700	120	< 1.5	48	< 1	41	27	16
			19871	9300	< 0.8	< 5	29	< 0.5	< 0.8	3800	23	4	42	11000	13	1800	130	< 1.5	55	< 1	40	27	17
		10-20 cm (soil)	19872	8600	< 0.8	6	26	< 0.5	< 0.8	2900	22	4	43	10000	12	1800	110	< 1.5	57	< 1	29	25	17
			19873	8800	< 0.8	< 5	29	< 0.5	< 0.8	3400	23	4	26	10000	9	1700	120	< 1.5	42	< 1	38	26	15
5030673 Baseball Infield	F	0-5 cm (gravel)	19874	6300	< 0.8	< 5	28	< 0.5	< 0.8	6500	25	4	15	11000	4	3700	160	< 1.5	20	< 1	52	26	14
			19875	8000	< 0.8	< 5	36	< 0.5	< 0.8	7100	29	5	17	12000	4	3800	200	< 1.5	21	< 1	63	29	15
5030674 Baseball Outfield	G	0-5 cm (soil)	19876	10000	< 0.8	5	38	< 0.5	< 0.8	6000	28	5	55	11000	14	2400	160	< 1.5	78	< 1	49	29	26
			19877	10000	< 0.8	5	38	< 0.5	< 0.8	5700	30	5	60	11000	14	2300	160	< 1.5	79	< 1	50	29	24
		5-10 cm (soil)	19878	11000	< 0.8	6	36	< 0.5	< 0.8	5600	29	6	60	12000	15	2300	170	< 1.5	78	< 1	50	31	23
			19879	10000	< 0.8	< 5	35	< 0.5	< 0.8	5000	27	5	61	11000	14	2000	150	< 1.5	77	< 1	49	30	20
		10-20 cm (soil)	19880	10000	< 0.8	< 5	36	< 0.5	< 0.8	5200	27	5	34	11000	10	2100	160	< 1.5	55	< 1	49	28	17
			19881	8900	< 0.8	< 5	30	< 0.5	< 0.8	4100	23	4	27	11000	7	1900	140	< 1.5	50	< 1	40	26	19

Table F (results in bold)	NG	1.0	17	210	1.2	1.0	NG	71	21	85	NG	120	NG	NG	2.5	43	1.9	NG	91	160
Table A (results in bold and underlined)	NG	13	20	750	1.2	12.0	NG	750	40	225	NG	200	NG	NG	40	150	10	NG	200	600
< - less than the Method Detection Limit. NG - no guideline. All results are in µg/g dry wt.																				

Table C4.1: Outer Community Parks																								
Station	Map ID	Soil Depth	Sample No.	Al	Sb	As	Ba	Be	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Mo	Ni	Se	Sr	V	Zn	
5030675 Ball Diamond	H	0-5 cm (soil)	19882	8200	< 0.8	< 5	30	< 0.5	< 0.8	4200	23	5	62	11000	15	1900	150	< 1.5	84	< 1	41	26	26	
			19883	7300	< 0.8	< 5	26	< 0.5	< 0.8	3300	21	5	58	9600	14	1800	120	< 1.5	75	1	31	24	24	
		5-10 cm (soil)	19884	8400	< 0.8	< 5	29	< 0.5	< 0.8	3500	23	5	60	11000	15	1800	130	< 1.5	83	< 1	37	26	23	
			19885	8600	< 0.8	6	28	< 0.5	< 0.8	3700	22	5	53	11000	13	1800	130	< 1.5	69	< 1	38	26	22	
		10-20 cm (soil)	19886	8700	< 0.8	< 5	31	< 0.5	< 0.8	3500	23	5	32	11000	10	1700	140	< 1.5	58	< 1	36	25	19	
			19887	8400	< 0.8	< 5	31	< 0.5	< 0.8	3000	21	4	21	11000	7	1700	120	< 1.5	42	< 1	29	24	17	
Community of Capreol																								
Capreol Centennial Recreation Park, Field St.																								
5030759 Baseball Outfield	A	0-5 cm (soil)	21555	10000	< 0.8	16	38	< 0.5	< 0.8	5500	25	5	36	13000	12	2700	230	< 1.5	54	< 1	30	27	41	
			21556	11000	< 0.8	15	40	< 0.5	< 0.8	5900	25	6	39	14000	13	2800	240	< 1.5	60	< 1	34	28	47	
		5-10 cm (soil)	21557	11000	< 0.8	16	40	< 0.5	< 0.8	5900	27	7	46	14000	12	2600	260	< 1.5	59	< 1	36	33	43	
			21558	11000	< 0.8	15	37	< 0.5	< 0.8	4700	26	6	39	14000	9	2300	240	< 1.5	49	< 1	30	30	36	
		10-20 cm (soil)	21559	13000	< 0.8	15	41	< 0.5	< 0.8	4700	29	7	40	15000	9	2300	290	< 1.5	50	< 1	31	33	36	
			21560	11000	< 0.8	15	38	< 0.5	< 0.8	4500	29	6	34	15000	8	2500	260	< 1.5	45	< 1	33	34	31	
5030760 Baseball Outfield	B	0-5 cm (soil)	21563	11000	< 0.8	15	31	< 0.5	< 0.8	3500	25	5	25	12000	8	2100	150	< 1.5	43	< 1	30	27	24	
			21564	13000	< 0.8	15	40	< 0.5	< 0.8	5000	29	5	28	14000	9	2300	190	< 1.5	44	< 1	45	31	27	
		5-10 cm (soil)	21565	13000	< 0.8	15	49	< 0.5	< 0.8	6000	34	5	39	15000	10	2800	250	< 1.5	47	< 1	45	35	35	
			21566	12000	< 0.8	15	36	< 0.5	< 0.8	4800	28	6	35	14000	11	2400	200	< 1.5	53	< 1	34	30	29	
		10-20 cm (soil)	21567	17000	< 0.8	15	60	< 0.5	< 0.8	6200	40	5	48	19000	10	2900	350	< 1.5	49	< 1	46	42	42	
			21568	12000	< 0.8	15	41	< 0.5	< 0.8	5000	30	6	36	15000	9	2600	250	< 1.5	48	< 1	36	33	32	
5030761 Baseball Infield	C	0-5 cm (soil)	21561	9500	< 0.8	15	30	< 0.5	< 0.8	5300	27	8	20	14000	5	3600	160	< 1.5	29	< 1	38	27	24	
			21562	7500	0.9	15	30	< 0.5	< 0.8	5300	28	6	20	13000	5	3800	170	< 1.5	29	< 1	40	29	25	
5030762 Baseball Infield	D	0-5 cm (soil)	21569	9800	< 0.8	15	45	< 0.5	< 0.8	7000	30	7	22	14000	4	3700	190	< 1.5	25	< 1	57	30	19	
			21570	6100	< 0.8	15	30	< 0.5	< 0.8	4200	25	6	21	11000	5	3500	160	< 1.5	26	< 1	34	25	13	
5030763 Soccer Field	E	0-5 cm (soil)	21571	11000	< 0.8	16	46	< 0.5	< 0.8	9600	25	7	74	15000	23	3500	280	< 1.5	96	< 1	26	32	47	
			21572	10000	< 0.8	16	38	< 0.5	< 0.8	11000	24	6	61	13000	21	5100	220	< 1.5	80	< 1	21	27	40	
		5-10 cm (soil)	21573	12000	< 0.8	15	39	< 0.5	< 0.8	3900	27	6	45	15000	12	2300	280	< 1.5	59	< 1	19	32	35	
			21574	12000	< 0.8	16	40	< 0.5	< 0.8	3700	27	6	48	15000	12	2200	280	< 1.5	59	< 1	15	32	35	
		10-20 cm (soil)	21575	13000	< 0.8	< 5	43	< 0.5	< 0.8	4200	31	8	42	16000	11	2300	310	< 1.5	71	< 1	31	38	38	
			21576	14000	< 0.8	6	55	< 0.5	< 0.8	4200	32	9	63	17000	18	2300	360	< 1.5	100	1	33	38	40	

Table F (results in bold)	NG	1.0	17	210	1.2	1.0	NG	71	21	85	NG	120	NG	NG	2.5	43	1.9	NG	91	160
Table A (results in bold and underlined)	NG	13	20	750	1.2	12.0	NG	750	40	225	NG	200	NG	NG	40	150	10	NG	200	600
< - less than the Method Detection Limit. NG - no guideline. All results are in µg/g dry wt.																				

Table C4.1: Outer Community Parks																							
Station	Map ID	Soil Depth	Sample No.	Al	Sb	As	Ba	Be	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Mo	Ni	Se	Sr	V	Zn
Doug Mohns Park at Capreol Centennial Recreation Park,Field St.																							
5030764 Green Space	F	0-5 cm (soil)	21577	7900	< 0.8	< 5	22	< 0.5	< 0.8	3300	26	5	17	12000	6	2200	170	< 1.5	38	< 1	33	27	18
			21578	6700	< 0.8	< 5	19	< 0.5	< 0.8	3100	27	4	14	11000	4	2200	150	< 1.5	30	< 1	27	24	17
		5-10 cm (soil)	21579	7400	< 0.8	< 5	24	< 0.5	< 0.8	2900	26	5	15	12000	5	2100	170	< 1.5	33	< 1	29	27	15
			21580	7000	1.8	< 5	23	< 0.5	< 0.8	2800	26	5	20	12000	6	2300	180	< 1.5	37	< 1	26	28	16
		10-20 cm (soil)	21581	7100	< 0.8	< 5	23	< 0.5	< 0.8	2800	26	5	22	12000	7	2200	170	< 1.5	39	< 1	29	28	15
			21582	5600	< 0.8	< 5	18	< 0.5	< 0.8	1800	24	5	17	11000	6	2200	150	< 1.5	33	< 1	14	27	14
5030765 Play Structure	G	0-5 cm (sand)	21583	5000	< 0.8	< 5	15	< 0.5	< 0.8	3100	28	5	12	12000	4	3000	150	< 1.5	25	< 1	18	27	29
			21584	5000	< 0.8	< 5	16	< 0.5	< 0.8	3600	28	5	14	12000	4	3000	170	< 1.5	24	< 1	21	29	17
Capreol Public Beach,Vermillion River on Lakeshore Dr.																							
5030768 Green Space	A	0-5 cm (soil)	21597	5700	< 0.8	< 5	19	< 0.5	< 0.8	2800	22	4	17	9300	11	2200	130	< 1.5	25	< 1	23	22	18
			21598	6400	< 0.8	< 5	23	< 0.5	< 0.8	3100	22	4	23	9700	11	2100	130	< 1.5	33	< 1	27	23	19
		5-10 cm (soil)	21599	6700	< 0.8	< 5	29	< 0.5	< 0.8	2900	23	4	26	9500	11	1900	130	< 1.5	32	< 1	26	24	25
			21600	6300	< 0.8	< 5	23	< 0.5	< 0.8	2700	22	4	26	9200	13	1900	120	< 1.5	34	< 1	22	22	18
		10-20 cm (soil)	21601	6800	< 0.8	< 5	28	< 0.5	< 0.8	2800	25	4	27	10000	16	2100	140	< 1.5	37	< 1	24	24	25
			21602	5800	< 0.8	< 5	19	< 0.5	< 0.8	2600	20	4	20	8500	10	1800	120	< 1.5	30	< 1	24	21	14
5030769 Beach	B	0-5 cm (sand)	21603	7100	< 0.8	< 5	24	< 0.5	< 0.8	4000	30	4	6.9	12000	4	2400	190	< 1.5	15	< 1	39	28	13
			21604	6200	< 0.8	< 5	20	< 0.5	< 0.8	3500	28	4	6.9	12000	4	2400	180	< 1.5	14	< 1	33	28	13
Cenotaph Park,Lily St. Anna Ave.																							
5030766 Green Space	A	0-5 cm (soil)	21585	9000	< 0.8	< 5	34	< 0.5	< 0.8	4600	26	5	27	11000	10	2200	170	< 1.5	48	< 1	35	26	22
			21586	10000	< 0.8	< 5	39	< 0.5	< 0.8	5100	27	5	27	12000	10	2300	170	< 1.5	49	< 1	44	27	24
		5-10 cm (soil)	21587	10000	0.9	< 5	36	< 0.5	< 0.8	4800	28	4	23	11000	8	2100	160	< 1.5	39	< 1	42	27	19
			21588	11000	< 0.8	< 5	41	< 0.5	< 0.8	5100	29	4	25	12000	10	2100	180	< 1.5	41	< 1	44	30	21
		10-20 cm (soil)	21589	9000	< 0.8	< 5	32	< 0.5	< 0.8	4400	23	4	23	11000	9	1800	150	< 1.5	35	< 1	37	25	20
			21590	10000	< 0.8	< 5	39	< 0.5	< 0.8	4800	28	4	22	12000	11	2000	180	< 1.5	35	< 1	42	28	22
Dunn Park,Pine St.																							
5030772 Green Space	A	0-5 cm (soil)	21613	8600	< 0.8	< 5	26	< 0.5	< 0.8	3200	26	6	40	14000	15	2100	190	< 1.5	51	< 1	24	32	30
			21614	8200	< 0.8	< 5	27	< 0.5	< 0.8	3800	24	5	43	13000	21	2000	160	< 1.5	55	< 1	28	28	34
		5-10 cm (soil)	21615	7900	< 0.8	< 5	25	< 0.5	< 0.8	3400	27	5	28	12000	7	2100	190	< 1.5	30	< 1	30	28	24
			21616	8300	< 0.8	< 5	27	< 0.5	< 0.8	3600	27	5	20	13000	21	2200	200	< 1.5	34	< 1	36	30	72
		10-20 cm (soil)	21617	9000	< 0.8	< 5	29	< 0.5	< 0.8	3900	29	6	24	14000	12	2300	210	< 1.5	38	< 1	35	30	24
			21618	8800	< 0.8	< 5	31	< 0.5	< 0.8	3300	31	6	26	15000	11	2300	190	< 1.5	40	< 1	30	33	22
5030773 Play Structure	B	0-5 cm (sand)	21619	5000	< 0.8	< 5	15	< 0.5	< 0.8	2400	24	4	8.8	9800	8	2200	150	< 1.5	15	< 1	23	23	16
			21620	5400	< 0.8	< 5	18	< 0.5	< 0.8	2500	25	4	9	10000	7	2200	170	< 1.5	15	< 1	24	24	12

Table F (results in bold)	NG	1.0	17	210	1.2	1.0	NG	71	21	85	NG	120	NG	NG	2.5	43	1.9	NG	91	160
Table A (results in bold and underlined)	NG	13	20	750	1.2	12.0	NG	750	40	225	NG	200	NG	NG	40	150	10	NG	200	600
< - less than the Method Detection Limit. NG - no guideline. All results are in µg/g dry wt.																				

Table C4.1: Outer Community Parks																								
Station	Map ID	Soil Depth	Sample No.	Al	Sb	As	Ba	Be	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Mo	Ni	Se	Sr	V	Zn	
Ella Lake Campground,Capreol Lake Bad																								
5030776 Green Space	A	0-5 cm (soil)	21628	11000	< 0.8	< 5	32	< 0.5	< 0.8	3000	33	7	50	15000	18	2500	180	< 1.5	66	< 1	38	33	36	
			21629	13000	< 0.8	< 5	41	< 0.5	< 0.8	3200	37	8	52	17000	17	2500	200	< 1.5	68	< 1	40	36	37	
		5-10 cm (soil)	21630	14000	< 0.8	< 5	43	< 0.5	< 0.8	3100	38	8	38	17000	12	2600	210	< 1.5	53	< 1	40	41	41	
			21631	13000	< 0.8		7	< 0.5	< 0.8	2800	34	9	47	17000	15	2600	190	< 1.5	67	< 1	33	37	39	
		10-20 cm (soil)	21632	9000	< 0.8		5	< 0.5	< 0.8	2500	37	9	42	16000	16	3500	180	< 1.5	53	< 1	27	34	29	
5030777 Beach	B	0-5 cm (sand)	21633	4900	< 0.8	< 5	17	< 0.5	< 0.8	2700	27	5	9.6	12000	3	2400	200	< 1.5	17	< 1	22	29	14	
			21634	4300	< 0.8	< 5	14	< 0.5	< 0.8	2000	24	4	9.6	10000	4	2200	150	< 1.5	21	< 1	14	23	9.6	
5030778 Green Space	C	0-5 cm (soil)	21635	11000	< 0.8	< 5	37	< 0.5	< 0.8	3600	28	5	29	14000	9	2000	200	< 1.5	48	< 1	38	29	23	
			21636	9300	< 0.8	< 5	33	< 0.5	< 0.8	3300	27	5	26	13000	9	2100	190	< 1.5	45	< 1	33	27	22	
		5-10 cm (soil)	21637	11000	0.9	< 5	36	< 0.5	< 0.8	3300	27	6	23	13000	10	2000	210	< 1.5	48	< 1	35	27	20	
			21638	11000	< 0.8	< 5	37	< 0.5	< 0.8	3500	27	5	22	13000	8	2000	210	< 1.5	42	< 1	38	28	20	
		10-20 cm (soil)	21639	11000	< 0.8	< 5	40	< 0.5	< 0.8	3600	29	6	24	14000	9	2000	230	< 1.5	48	< 1	38	29	22	
			21640	11000	< 0.8	< 5	37	< 0.5	< 0.8	2900	28	6	27	14000	9	2000	210	< 1.5	45	< 1	28	27	23	
McNicol Playground,Between Lincoln &Mooney Streets																								
5030770 Green Space	A	0-5 cm (soil)	21605	10000	< 0.8	< 5	58	< 0.5	< 0.8	4200	37	6	47	16000	66	2300	220	< 1.5	59	< 1	45	32	66	
			21606	10000	< 0.8	< 5	49	< 0.5	< 0.8	4200	34	5	41	15000	43	2300	200	< 1.5	50	< 1	44	30	50	
		5-10 cm (soil)	21607	9500	1.1	< 5	83	< 0.5	< 0.8	4000	32	5	39	16000	91	2200	250	< 1.5	47	< 1	45	32	97	
			21608	11000	0.9	< 5	91	< 0.5	< 0.8	4300	36	5	40	15000	72	2300	260	< 1.5	44	< 1	48	33	94	
		10-20 cm (soil)	21609	11000	3		9	210	< 0.5	0.9	5400	45	10	85	23000	214	2700	430	< 1.5	76	< 1	68	44	230
5030771 Play Structure	B	0-5 cm (sand)	21611	4200	< 0.8	< 5	14	< 0.5	< 0.8	2700	22	5	10	10000	4	2800	140	< 1.5	17	< 1	16	23	17	
			21612	4100	< 0.8	< 5	14	< 0.5	< 0.8	2800	23	4	11	10000	4	2600	140	< 1.5	16	< 1	16	23	16	
Norman B. Lion's Playground-Capreol Lion's Den,Albert St.																								
5030774 Green Space	A	0-5 cm (soil)	21623	9000	< 0.8	< 5	29	< 0.5	< 0.8	1700	23	4	29	11000	13	1600	140	< 1.5	44	< 1	17	22	22	
			21624	10000	0.9	< 5	31	< 0.5	< 0.8	2400	25	5	32	13000	13	1700	160	< 1.5	43	< 1	31	26	26	
		5-10 cm (soil)	21625	10000	< 0.8	< 5	30	< 0.5	< 0.8	2600	25	4	24	12000	11	1700	140	< 1.5	34	< 1	31	26	18	
			21626	12000	< 0.8	< 5	38	< 0.5	< 0.8	3500	32	5	24	14000	13	2000	180	< 1.5	37	< 1	43	30	20	
		10-20 cm (soil)	21627	13000	< 0.8	< 5	44	< 0.5	< 0.8	3400	37	6	37	17000	23	2300	220	< 1.5	46	< 1	43	36	32	
5030775 Play Structure	B	0-5 cm (sand)	21621	7000	< 0.8	< 5	18	< 0.5	< 0.8	2500	30	6	15	14000	5	2700	190	< 1.5	23	< 1	23	32	17	
			21622	6400	< 0.8	< 5	17	< 0.5	< 0.8	2200	28	6	14	13000	5	2600	190	< 1.5	24	< 1	21	30	15	

Table F (results in bold)	NG	1.0	17	210	1.2	1.0	NG	71	21	85	NG	120	NG	NG	2.5	43	1.9	NG	91	160
Table A (results in bold and underlined)	NG	13	20	750	1.2	12.0	NG	750	40	225	NG	200	NG	NG	40	150	10	NG	200	600
< - less than the Method Detection Limit. NG - no guideline. All results are in µg/g dry wt.																				

Table C4.1: Outer Community Parks																								
Station	Map ID	Soil Depth	Sample No.	Al	Sb	As	Ba	Be	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Mo	Ni	Se	Sr	V	Zn	
Prescott Park,26 Bloor St.																								
5030767 Green Space	A	0-5 cm (soil)	21591	9500	< 0.8	6	43	< 0.5	< 0.8	3600	27	6	57	15000	34	2200	190	< 1.5	63	< 1	30	30	49	
			21592	8500	< 0.8	< 5	35	< 0.5	< 0.8	3600	23	5	48	13000	27	2000	160	< 1.5	57	< 1	27	26	43	
		5-10 cm (soil)	21593	8400	< 0.8	< 5	36	< 0.5	< 0.8	3100	22	5	34	13000	19	1900	170	< 1.5	45	< 1	24	27	32	
			21594	8400	< 0.8	< 5	33	< 0.5	< 0.8	4000	22	4	32	12000	17	1900	170	< 1.5	42	< 1	27	27	30	
		10-20 cm (soil)	21595	8500	< 0.8	< 5	34	< 0.5	< 0.8	5300	21	4	24	14000	14	2000	190	< 1.5	30	< 1	29	28	27	
			21596	8100	< 0.8	< 5	34	< 0.5	< 0.8	5200	19	4	16	13000	10	2000	210	1.7	26	< 1	28	27	24	
Community of Chelmsford																								
Bathurst Playground,Bathurst & Leonard St.																								
5030831 Green Space	A	0-5 cm (soil)	21293	12000	< 0.8	< 5	46	< 0.5	< 0.8	9700	39	7	44	18000	14	3600	350	< 1.5	69	< 1	48	34	48	
			21294	12000	< 0.8	< 5	47	< 0.5	< 0.8	9500	38	9	44	17000	30	3600	290	< 1.5	78	< 1	42	32	36	
		5-10 cm (soil)	21295	12000	< 0.8	< 5	44	< 0.5	< 0.8	6900	39	8	29	17000	12	3300	230	< 1.5	58	< 1	36	32	28	
			21296	14000	< 0.8	5	49	< 0.5	< 0.8	8500	42	7	34	19000	11	3700	260	< 1.5	60	< 1	49	37	30	
		10-20 cm (soil)	21297	11000	< 0.8	< 5	41	< 0.5	< 0.8	7100	38	7	30	16000	11	4400	200	< 1.5	46	< 1	31	32	27	
			21298	12000	< 0.8	< 5	44	< 0.5	< 0.8	6300	38	7	30	17000	14	3900	210	< 1.5	47	< 1	36	33	27	
5030832 Play Structure	B	0-5 cm (sand)	21299	8500	< 0.8	< 5	38	< 0.5	< 0.8	4100	38	11	49	25000	11	7000	300	< 1.5	31	< 1	23	48	39	
			21300	8900	< 0.8	< 5	42	< 0.5	< 0.8	4000	36	11	52	25000	12	7200	300	< 1.5	30	< 1	22	46	39	
Berthiaume Playground,Berthiaume & Gravelle St.																								
5030833 Green Space	A	0-5 cm (soil)	21301	6700	< 0.8	< 5	25	< 0.5	< 0.8	17000	26	8	32	13000	12	8800	230	< 1.5	45	< 1	31	25	20	
			21302	6500	< 0.8	< 5	25	< 0.5	< 0.8	19000	26	8	33	13000	12	10000	220	< 1.5	47	< 1	26	23	20	
		5-10 cm (soil)	21303	6600	< 0.8	< 5	24	< 0.5	< 0.8	18000	26	7	19	13000	8	9700	190	< 1.5	28	< 1	26	24	18	
			21304	6400	< 0.8	< 5	23	< 0.5	< 0.8	22000	26	6	16	13000	6	12000	200	< 1.5	24	< 1	29	24	16	
		10-20 cm (soil)	21305	6400	< 0.8	< 5	22	< 0.5	< 0.8	20000	26	6	16	13000	6	11000	190	< 1.5	25	< 1	24	23	16	
			21306	7000	< 0.8	< 5	24	< 0.5	< 0.8	19000	27	6	18	14000	8	10000	200	< 1.5	24	< 1	27	24	18	
5030834 Play Structure	B	0-5 cm (sand)	21307	6300	< 0.8	< 5	20	< 0.5	< 0.8	3400	28	9	27	18000	7	4400	220	< 1.5	24	< 1	22	38	25	
			21308	7800	< 0.8	< 5	28	< 0.5	< 0.8	4500	32	9	28	19000	7	4600	240	< 1.5	26	< 1	39	38	25	
Bonaventure Playground (Shirley Playground),Edna & Shirley Streets																								
5030735 Green Space	A	0-5 cm (soil)	21367	9900	< 0.8	< 5	32	< 0.5	< 0.8	3400	25	4	19	11000	8	2300	170	< 1.5	33	< 1	42	27	21	
			21368	9900	< 0.8	< 5	32	< 0.5	< 0.8	3400	25	5	23	12000	9	2100	170	< 1.5	36	< 1	42	28	22	
		5-10 cm (soil)	21369	10000	< 0.8	< 5	28	< 0.5	< 0.8	5100	23	4	16	12000	8	2300	150	< 1.5	22	< 1	40	28	19	
			21370	11000	< 0.8	< 5	33	< 0.5	< 0.8	5200	26	4	22	12000	9	2600	160	< 1.5	22	< 1	41	28	23	
		10-20 cm (soil)	21371	8800	< 0.8	< 5	30	< 0.5	< 0.8	3500	24	5	17	11000	10	2200	170	< 1.5	27	< 1	40	28	20	
			21372	7700	< 0.8	< 5	30	< 0.5	< 0.8	3600	37	8	33	18000	7	4000	260	< 1.5	29	< 1	38	41	36	
5030736 Play Structure	B	0-5 cm (sand)	21373	8100	< 0.8	< 5	33	< 0.5	< 0.8	3700	39	9	37	19000	8	4300	260	< 1.5	30	< 1	38	43	36	
			21374	9500	< 0.8	< 5	33	< 0.5	< 0.8	3600	27	5	17	12000	10	2200	190	< 1.5	31	< 1	42	30	21	

Table F (results in bold)	NG	1.0	17	210	1.2	1.0	NG	71	21	85	NG	120	NG	NG	2.5	43	1.9	NG	91	160
Table A (results in bold and underlined)	NG	13	20	750	1.2	12.0	NG	750	40	225	NG	200	NG	NG	40	150	10	NG	200	600
< - less than the Method Detection Limit.				NG - no guideline.				All results are in µg/g dry wt.												

Table C4.1: Outer Community Parks

Station	Map ID	Soil Depth	Sample No.	Al	Sb	As	Ba	Be	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Mo	Ni	Se	Sr	V	Zn
Cote Park,215 Edward Ave.																							
5030725 Baseball Outfield	A	0-5 cm (soil)	21331	10000	< 0.8	5	40	< 0.5	< 0.8	6200	29	6	34	14000	10	2900	200	< 1.5	52	< 1	47	31	30
			21332	9300	< 0.8	5	36	< 0.5	< 0.8	4600	27	6	33	13000	10	2400	180	< 1.5	53	< 1	35	28	29
		5-10 cm (soil)	21333	8300	< 0.8	6	32	< 0.5	< 0.8	4000	27	6	32	12000	9	2300	170	< 1.5	52	< 1	34	29	26
			21334	9200	< 0.8	6	34	< 0.5	< 0.8	4000	28	6	34	13000	9	2300	160	< 1.5	52	< 1	35	29	27
		10-20 cm (soil)	21335	7500	< 0.8	< 5	28	< 0.5	< 0.8	3800	26	5	26	12000	6	2300	180	< 1.5	45	< 1	30	27	24
			21336	7300	< 0.8	< 5	26	< 0.5	< 0.8	3600	25	5	22	12000	6	2400	170	< 1.5	33	< 1	28	25	22
5030726 Baseball Infield	B	0-5 cm (soil)	21337	8300	< 0.8	< 5	36	< 0.5	< 0.8	12000	27	6	23	14000	6	6800	220	< 1.5	29	< 1	80	28	28
			21338	8000	< 0.8	< 5	34	< 0.5	< 0.8	12000	27	5	22	14000	5	6400	220	< 1.5	26	< 1	77	29	27
5030727 Play Structure	C	0-5 cm (sand)	21339	5000	< 0.8	< 5	16	< 0.5	< 0.8	3000	24	4	17	13000	4	2800	170	< 1.5	14	< 1	24	28	29
			21340	5100	< 0.8	< 5	16	< 0.5	< 0.8	3000	24	4	17	13000	4	2900	170	< 1.5	16	< 1	23	27	28
5030728 Play Structure	D	0-5 cm (sand)	21341	5100	< 0.8	< 5	17	< 0.5	< 0.8	3500	26	4	14	13000	4	3000	170	< 1.5	13	< 1	21	27	29
			21342	4600	< 0.8	< 5	16	< 0.5	< 0.8	2900	23	4	12	12000	4	2900	150	< 1.5	14	< 1	17	26	27
5030729 Green Space	E	0-5 cm (soil)	21343	9000	< 0.8	< 5	34	< 0.5	< 0.8	7000	29	6	34	14000	11	3400	200	< 1.5	47	< 1	36	27	36
			21344	8200	< 0.8	< 5	32	< 0.5	< 0.8	6600	29	7	36	14000	14	3400	200	< 1.5	46	< 1	31	25	41
		5-10 cm (soil)	21345	8300	< 0.8	< 5	31	< 0.5	< 0.8	6600	28	6	29	13000	11	3500	190	< 1.5	40	< 1	34	27	33
			21346	7900	< 0.8	< 5	30	< 0.5	< 0.8	7100	26	6	26	12000	12	3700	180	< 1.5	34	< 1	33	26	32
		10-20 cm (soil)	21347	9700	< 0.8	8	36	< 0.5	< 0.8	7200	31	6	24	14000	9	3400	220	< 1.5	34	< 1	46	29	34
			21348	8400	< 0.8	< 5	31	< 0.5	< 0.8	8500	28	6	26	14000	9	3900	210	< 1.5	34	< 1	42	27	29
David Street Playground,David & Marion Streets																							
5030720 Green Space	A	0-5 cm (soil)	21309	9600	< 0.8	< 5	33	< 0.5	< 0.8	4600	31	5	22	13000	11	2500	180	< 1.5	39	< 1	40	28	24
			21310	10000	< 0.8	< 5	35	< 0.5	< 0.8	4400	31	5	23	13000	14	2400	170	< 1.5	40	< 1	40	28	20
		5-10 cm (soil)	21311	9000	< 0.8	< 5	25	< 0.5	< 0.8	3900	26	4	15	12000	7	2100	170	< 1.5	26	< 1	37	26	19
			21312	8400	< 0.8	< 5	24	< 0.5	< 0.8	3400	24	4	12	11000	6	2000	150	< 1.5	25	< 1	34	25	16
		10-20 cm (soil)	21313	6200	< 0.8	< 5	16	< 0.5	< 0.8	2500	20	4	7.2	9300	6	1800	120	< 1.5	16	< 1	21	22	22
			21314	5700	< 0.8	< 5	14	< 0.5	< 0.8	1900	20	3	7.3	9700	3	1700	120	< 1.5	17	< 1	14	21	21
5030721 Play Structure	B	0-5 cm (sand)	21315	7700	< 0.8	< 5	27	< 0.5	< 0.8	3400	31	10	31	19000	8	5800	240	< 1.5	27	< 1	24	36	36
			21316	7800	< 0.8	< 5	29	< 0.5	< 0.8	3700	32	10	34	21000	8	5900	250	< 1.5	26	< 1	25	40	37
5030722 Play Structure	C	0-5 cm (sand)	21317	5700	< 0.8	5	17	< 0.5	< 0.8	2500	24	6	20	13000	9	2600	160	< 1.5	22	< 1	20	26	33
			21318	5700	< 0.8	< 5	17	< 0.5	< 0.8	2500	24	5	18	13000	7	2600	160	< 1.5	23	< 1	20	25	30

Table F (results in bold)	NG	1.0	17	210	1.2	1.0	NG	71	21	85	NG	120	NG	NG	2.5	43	1.9	NG	91	160
Table A (results in bold and underlined)	NG	13	20	750	1.2	12.0	NG	750	40	225	NG	200	NG	NG	40	150	10	NG	200	600
< - less than the Method Detection Limit. NG - no guideline. All results are in µg/g dry wt.																				

Table C4.1: Outer Community Parks

Station	Map ID	Soil Depth	Sample No.	Al	Sb	As	Ba	Be	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Mo	Ni	Se	Sr	V	Zn
Fireman Park,Morgan R																							
5030830 Green Space	A	0-5 cm (soil)	21287	7600	< 0.8	< 5	31	< 0.5	< 0.8	5500	28	20	15	12000	8	3200	210	< 1.5	104	< 1	37	26	36
			21288	6900	< 0.8	< 5	28	< 0.5	< 0.8	4400	26	16	12	12000	8	2700	200	< 1.5	78	< 1	36	25	32
		5-10 cm (soil)	21289	7700	< 0.8	< 5	30	< 0.5	< 0.8	5500	29	17	12	13000	6	3400	220	< 1.5	76	< 1	36	27	27
			21290	9000	< 0.8	< 5	36	< 0.5	< 0.8	6100	33	17	12	14000	6	3800	230	< 1.5	77	< 1	40	29	28
		10-20 cm (soil)	21291	5300	< 0.8	< 5	22	< 0.5	< 0.8	3400	22	13	6.9	9700	3	2400	160	< 1.5	53	< 1	28	21	20
			21292	4900	< 0.8	< 5	19	< 0.5	< 0.8	2700	21	5	7.4	9500	3	2100	150	< 1.5	21	< 1	22	20	20
Larchmount Drive Playground,Larchmount Dr																							
5030828 Green Space	A	0-5 cm (soil)	21279	10000	< 0.8	< 5	35	< 0.5	< 0.8	5500	29	22	26	14000	11	2800	220	< 1.5	151	< 1	40	28	26
			21280	9700	< 0.8	< 5	32	< 0.5	< 0.8	4500	26	16	25	13000	8	2400	180	< 1.5	121	< 1	36	26	22
		5-10 cm (soil)	21281	9700	< 0.8	< 5	32	< 0.5	< 0.8	4800	28	19	24	14000	10	2800	200	< 1.5	134	< 1	35	27	23
			21282	9800	< 0.8	< 5	32	< 0.5	< 0.8	4800	28	18	25	13000	9	2600	190	< 1.5	130	< 1	37	28	22
		10-20 cm (soil)	21283	9400	< 0.8	< 5	30	< 0.5	< 0.8	4500	29	19	21	16000	8	3600	220	< 1.5	76	< 1	28	31	30
			21284	9900	< 0.8	< 5	33	< 0.5	< 0.8	5200	29	20	19	15000	10	3300	210	< 1.5	105	< 1	35	30	24
5030829 Play Structure	B	0-5 cm (sand)	21285	6100	< 0.8	6	18	< 0.5	< 0.8	2800	31	19	23	16000	5	4000	190	< 1.5	62	< 1	22	31	26
			21286	9400	< 0.8	7	38	< 0.5	< 0.8	4300	38	21	26	18000	5	4000	230	< 1.5	63	< 1	40	38	28
Main St. Playground,Main Green Streets																							
5030724 Green Space	A	0-5 cm (soil)	21325	7900	< 0.8	6	24	< 0.5	< 0.8	3700	24	5	24	12000	14	2100	170	< 1.5	32	< 1	34	26	36
			21326	8200	< 0.8	< 5	31	< 0.5	< 0.8	4000	29	5	26	13000	17	2600	180	< 1.5	34	< 1	34	26	44
		5-10 cm (soil)	21327	8400	< 0.8	< 5	25	< 0.5	< 0.8	3400	24	4	21	12000	11	2000	160	< 1.5	30	< 1	30	26	28
			21328	7900	< 0.8	< 5	24	< 0.5	< 0.8	3500	24	5	21	12000	13	2200	160	< 1.5	30	< 1	32	25	31
		10-20 cm (soil)	21329	6500	< 0.8	< 5	20	< 0.5	< 0.8	3100	20	4	8.4	10000	5	2100	140	< 1.5	16	< 1	30	22	19
			21330	6800	< 0.8	< 5	20	< 0.5	< 0.8	3300	24	5	15	11000	9	2100	160	< 1.5	26	< 1	30	24	24
Nickel Basin Playground,Vermillion Lake R																							
5030822 Green Space	A	0-5 cm (soil)	21255	11000	< 0.8	< 5	43	< 0.5	< 0.8	6600	36	7	27	16000	12	3600	260	< 1.5	51	< 1	35	30	31
			21256	11000	< 0.8	< 5	43	< 0.5	< 0.8	7700	36	7	26	15000	12	4000	260	< 1.5	53	< 1	38	31	31
		5-10 cm (soil)	21257	11000	< 0.8	< 5	44	< 0.5	< 0.8	5600	37	7	22	15000	10	3400	240	< 1.5	40	< 1	34	32	30
			21258	13000	< 0.8	< 5	47	< 0.5	< 0.8	8000	41	8	20	17000	10	4300	250	< 1.5	44	< 1	48	36	32
		10-20 cm (soil)	21259	14000	< 0.8	< 5	48	< 0.5	< 0.8	6900	43	7	14	18000	8	4100	260	< 1.5	32	< 1	50	37	30
			21260	13000	< 0.8	< 5	49	< 0.5	< 0.8	8100	43	7	14	18000	8	4500	270	< 1.5	35	< 1	49	37	30
5030823 Play Structure	B	0-5 cm (sand)	21261	9600	< 0.8	< 5	42	< 0.5	< 0.8	5000	46	10	48	24000	10	6700	310	< 1.5	27	< 1	37	45	41
			21262	9200	< 0.8	< 5	40	< 0.5	< 0.8	5100	42	11	42	23000	10	6500	290	< 1.5	28	< 1	37	42	38

Table F (results in bold)	NG	1.0	17	210	1.2	1.0	NG	71	21	85	NG	120	NG	NG	2.5	43	1.9	NG	91	160
Table A (results in bold and underlined)	NG	13	20	750	1.2	12.0	NG	750	40	225	NG	200	NG	NG	40	150	10	NG	200	600
< - less than the Method Detection Limit. NG - no guideline. All results are in µg/g dry wt.																				

Table C4.1: Outer Community Parks

Station	Map ID	Soil Depth	Sample No.	Al	Sb	As	Ba	Be	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Mo	Ni	Se	Sr	V	Zn
Northend Playground & Playfields, 3878 Regional R 15																							
5030737 Baseball Outfield	A	0-5 cm (soil)	21375	8900	< 0.8	7	37	< 0.5	< 0.8	2900	21	6	41	11000	14	1600	210	< 1.5	73	< 1	30	24	27
			21376	8700	< 0.8	7	35	< 0.5	< 0.8	2900	20	5	40	11000	13	1600	200	< 1.5	67	< 1	30	23	27
		5-10 cm (soil)	21377	9000	< 0.8	7	36	< 0.5	< 0.8	2300	21	5	35	12000	10	1500	210	< 1.5	57	< 1	24	24	27
			21378	9100	< 0.8	8	37	< 0.5	< 0.8	2600	22	6	34	12000	11	1600	210	< 1.5	64	< 1	27	24	27
		10-20 cm (soil)	21379	9400	< 0.8	5	37	< 0.5	< 0.8	2400	22	5	23	12000	8	1600	210	< 1.5	46	< 1	26	24	24
			21380	8800	< 0.8	7	36	< 0.5	< 0.8	2200	20	6	28	12000	10	1500	220	< 1.5	57	< 1	22	23	25
5030738 Baseball Infield	B	0-5 cm (soil)	21381	6800	< 0.8	< 5	32	< 0.5	< 0.8	8000	20	6	21	10000	7	4200	170	< 1.5	44	< 1	61	21	21
			21382	6400	< 0.8	< 5	33	< 0.5	< 0.8	8100	20	6	21	9900	7	4300	160	< 1.5	42	< 1	60	20	22
5030739 Green Space	C	0-5 cm (soil)	21383	8600	< 0.8	6	35	< 0.5	< 0.8	2300	21	6	47	12000	14	1600	220	< 1.5	75	< 1	24	23	29
			21384	9200	< 0.8	6	36	< 0.5	< 0.8	2900	22	6	44	12000	15	1700	230	< 1.5	71	< 1	30	25	28
		5-10 cm (soil)	21385	11000	< 0.8	7	42	< 0.5	< 0.8	3600	25	6	36	14000	11	1700	250	< 1.5	63	< 1	42	28	30
			21386	12000	< 0.8	6	48	< 0.5	< 0.8	4200	28	6	35	15000	12	2000	280	< 1.5	66	< 1	46	30	31
		10-20 cm (soil)	21387	12000	< 0.8	6	49	< 0.5	< 0.8	4000	31	6	30	14000	10	2000	270	< 1.5	57	< 1	45	29	28
			21388	12000	< 0.8	6	44	< 0.5	< 0.8	3900	26	7	28	14000	12	1900	260	< 1.5	74	< 1	45	29	28
Madrigue Street Playground, Madrigue Avenue & Mer Street																							
5030723 Green Space	A	0-5 cm (soil)	21319	5300	< 0.8	5	22	< 0.5	< 0.8	3100	24	4	18	11000	17	2100	140	< 1.5	25	< 1	23	23	46
			21320	4600	< 0.8	< 5	20	< 0.5	< 0.8	3100	22	5	16	10000	20	2100	140	< 1.5	32	< 1	17	22	40
		5-10 cm (soil)	21321	5200	< 0.8	< 5	20	< 0.5	< 0.8	2800	21	3	15	10000	14	2000	140	< 1.5	18	< 1	21	22	42
			21322	4900	< 0.8	< 5	20	< 0.5	< 0.8	2300	22	4	15	9700	14	2100	130	< 1.5	22	< 1	16	21	40
		10-20 cm (soil)	21323	5000	< 0.8	< 5	22	< 0.5	< 0.8	2600	20	4	13	9600	14	2000	140	< 1.5	22	< 1	18	21	36
			21324	5300	< 0.8	< 5	21	< 0.5	< 0.8	3300	22	4	14	10000	16	2200	160	< 1.5	22	< 1	24	22	31
St. George Playground (Irene Playground), Irene Crescent																							
5030732 Green Space	A	0-5 cm (soil)	21357	8200	< 0.8	< 5	29	< 0.5	< 0.8	7300	27	9	47	13000	11	4100	260	< 1.5	56	< 1	34	26	29
			21358	8700	< 0.8	< 5	29	< 0.5	< 0.8	6800	26	7	42	13000	11	4000	230	< 1.5	55	< 1	36	27	32
		5-10 cm (soil)	21359	7900	< 0.8	< 5	24	< 0.5	< 0.8	12000	26	6	26	13000	8	8100	200	< 1.5	35	< 1	37	25	23
			21360	8700	< 0.8	< 5	28	< 0.5	< 0.8	11000	27	7	30	13000	9	6300	220	< 1.5	43	< 1	40	28	26
		10-20 cm (soil)	21361	5600	< 0.8	< 5	21	< 0.5	< 0.8	17000	22	6	16	11000	6	9700	210	1.6	27	< 1	28	21	18
			21362	6200	< 0.8	< 5	21	< 0.5	< 0.8	16000	22	5	16	11000	6	8900	200	< 1.5	26	< 1	33	23	20
5030733 Play Structure	B	0-5 cm (sand)	21363	8000	< 0.8	< 5	31	< 0.5	< 0.8	3200	41	9	44	22000	7	5900	270	< 1.5	24	< 1	29	44	36
21364			10000	< 0.8	< 5	43	< 0.5	< 0.8	4100	42	10	69	22000	8	6100	290	< 1.5	26	< 1	46	47	39	
5030734 Play Structure	C	0-5 cm (sand)	21365	9100	< 0.8	< 5	36	< 0.5	< 0.8	4000	37	9	47	22000	8	5900	270	< 1.5	29	< 1	40	44	38
			21366	8800	< 0.8	< 5	34	< 0.5	< 0.8	3700	42	9	48	22000	8	6000	280	< 1.5	28	< 1	36	44	39

Table F (results in bold)	NG	1.0	17	210	1.2	1.0	NG	71	21	85	NG	120	NG	NG	2.5	43	1.9	NG	91	160
Table A (results in bold and underlined)	NG	13	20	750	1.2	12.0	NG	750	40	225	NG	200	NG	NG	40	150	10	NG	200	600
< - less than the Method Detection Limit. NG - no guideline. All results are in µg/g dry wt.																				

Table C4.1: Outer Community Parks

Station	Map ID	Soil Depth	Sample No.	Al	Sb	As	Ba	Be	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Mo	Ni	Se	Sr	V	Zn
Vaillancourt Street Playground,Vaillancourt Cr. & Abbe St.																							
5030730 Green Space	A	0-5 cm (soil)	21349	11000	< 0.8	< 5	44	< 0.5	< 0.8	6400	33	5	30	15000	10	3000	230	< 1.5	35	< 1	46	31	35
			21350	11000	< 0.8	< 5	46	< 0.5	< 0.8	6600	34	6	31	15000	12	3200	240	< 1.5	38	< 1	46	31	38
		5-10 cm (soil)	21351	12000	< 0.8	< 5	44	< 0.5	< 0.8	6000	32	5	28	15000	10	2800	230	< 1.5	37	< 1	47	32	31
			21352	9600	< 0.8	< 5	30	< 0.5	< 0.8	3500	27	5	26	13000	10	2300	200	< 1.5	38	< 1	36	28	26
		10-20 cm (soil)	21353	8400	< 0.8	< 5	28	< 0.5	< 0.8	3300	24	5	24	12000	9	2300	190	< 1.5	33	< 1	29	26	23
			21354	7600	< 0.8	< 5	27	< 0.5	< 0.8	3100	23	5	22	11000	10	2300	180	< 1.5	31	< 1	26	25	23
5030731 Play Structure	B	0-5 cm (sand)	21355	6300	< 0.8	< 5	26	< 0.5	< 0.8	2600	34	8	36	18000	10	4000	230	< 1.5	27	< 1	22	38	46
			21356	7200	< 0.8	< 5	29	< 0.5	< 0.8	3000	40	9	42	19000	10	4100	240	< 1.5	29	< 1	27	40	50
Vermillion Lake Bad Park,Vermillion Lake &																							
5030824 Ball Diamond	A	0-5 cm (soil)	21263	8700	< 0.8	< 5	34	< 0.5	< 0.8	7500	29	7	27	14000	7	3900	210	< 1.5	80	< 1	33	27	35
			21264	9700	< 0.8	< 5	37	< 0.5	< 0.8	8000	33	8	25	15000	8	3900	270	< 1.5	65	< 1	38	30	38
		5-10 cm (soil)	21265	9400	< 0.8	< 5	35	< 0.5	< 0.8	6400	32	9	32	15000	7	3400	230	< 1.5	98	< 1	36	30	33
			21266	9800	< 0.8	< 5	39	< 0.5	< 0.8	7100	34	8	26	15000	8	3800	260	< 1.5	70	< 1	38	31	37
		10-20 cm (soil)	21267	9400	< 0.8	< 5	35	< 0.5	< 0.8	6500	32	8	34	15000	7	3500	250	< 1.5	99	< 1	37	30	30
			21268	11000	< 0.8	< 5	42	< 0.5	< 0.8	7400	38	8	25	16000	9	4000	270	< 1.5	68	< 1	38	32	42
5030825 Green Space	B	0-5 cm (soil)	21269	14000	< 0.8	< 5	59	< 0.5	< 0.8	11000	47	9	21	19000	11	5600	380	< 1.5	42	< 1	54	39	40
			21270	13000	< 0.8	6	54	< 0.5	< 0.8	10000	44	8	22	18000	10	5200	390	< 1.5	40	< 1	53	38	37
		5-10 cm (soil)	21271	14000	< 0.8	< 5	57	< 0.5	< 0.8	9900	46	8	17	19000	9	5500	290	< 1.5	36	< 1	55	38	37
			21272	14000	< 0.8	< 5	57	< 0.5	< 0.8	9700	46	9	17	19000	12	5400	310	< 1.5	40	< 1	56	40	38
		10-20 cm (soil)	21273	13000	< 0.8	< 5	55	< 0.5	< 0.8	9700	46	8	17	18000	8	5400	320	< 1.5	32	< 1	55	39	36
			21274	12000	< 0.8	< 5	44	< 0.5	< 0.8	9600	39	29	14	17000	9	5200	290	< 1.5	124	< 1	50	36	32
5030826 Play Structure	C	0-5 cm (sand)	21275	3600	< 0.8	< 5	9.9	< 0.5	< 0.8	2500	20	13	5.9	8700	2	1900	120	< 1.5	45	< 1	18	20	10
			21276	3500	< 0.8	< 5	9.8	< 0.5	< 0.8	2400	20	11	6	8800	2	1900	120	< 1.5	40	< 1	17	20	10
5030827 Play Area	D	0-5 cm (sand)	21277	3600	< 0.8	< 5	11	< 0.5	< 0.8	2400	23	13	6.6	10000	2	2100	150	< 1.5	46	< 1	17	23	11
			21278	3800	< 0.8	< 5	12	< 0.5	< 0.8	2600	23	14	6.8	10000	2	2100	170	< 1.5	42	< 1	19	23	12
Community of Dowling																							
A.Y. Jackson Memorial Park,350 Wy 144 North																							
5030813 Green Space	A	0-5 cm (soil)	21221	10000	< 0.8	< 5	35	< 0.5	< 0.8	3500	24	6	25	14000	12	2100	190	< 1.5	34	< 1	36	30	30
			21222	10000	< 0.8	< 5	35	< 0.5	< 0.8	3400	24	5	28	13000	12	2100	180	< 1.5	36	< 1	36	28	30
		5-10 cm (soil)	21223	8300	< 0.8	< 5	28	< 0.5	< 0.8	3000	20	4	22	9900	11	1600	130	< 1.5	34	< 1	32	23	19
			21224	8400	1.4	< 5	29	< 0.5	< 0.8	2800	21	4	24	10000	14	1700	130	< 1.5	34	< 1	30	23	20
		10-20 cm (soil)	21225	8200	< 0.8	< 5	34	< 0.5	< 0.8	2700	21	4	33	11000	38	1600	160	< 1.5	38	< 1	29	24	25
			21226	9900	< 0.8	< 5	34	< 0.5	< 0.8	2700	22	5	25	13000	16	1800	150	< 1.5	34	< 1	28	27	33

Table F (results in bold)	NG	1.0	17	210	1.2	1.0	NG	71	21	85	NG	120	NG	NG	2.5	43	1.9	NG	91	160
Table A (results in bold and underlined)	NG	13	20	750	1.2	12.0	NG	750	40	225	NG	200	NG	NG	40	150	10	NG	200	600
< - less than the Method Detection Limit. NG - no guideline. All results are in µg/g dry wt.																				

Table C4.1: Outer Community Parks

Station	Map ID	Soil Depth	Sample No.	Al	Sb	As	Ba	Be	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Mo	Ni	Se	Sr	V	Zn
Douglas Street Playground, Gerard St.																							
5030815 Play Structure	A	0-5 cm (sand)	21229	5500	< 0.8	< 5	26	< 0.5	< 0.8	3000	26	7	16	15000	4	3800	230	< 1.5	19	< 1	21	29	22
			21230	7700	< 0.8	< 5	43	< 0.5	< 0.8	4400	30	7	16	18000	5	4000	290	< 1.5	18	< 1	36	39	24
5030816 Play Structure	B	0-5 cm (sand)	21231	6000	< 0.8	< 5	19	< 0.5	< 0.8	3500	26	7	16	16000	5	3800	190	< 1.5	19	< 1	28	32	24
			21232	8500	< 0.8	< 5	35	< 0.5	< 0.8	4400	29	6	17	17000	5	4000	220	< 1.5	18	< 1	41	35	27
5030817 Green Space	C	0-5 cm (soil)	21233	15000	< 0.8	< 5	62	< 0.5	3.8	6200	45	12	28	19000	16	4700	270	< 1.5	42	< 1	46	38	49
			21234	19000	< 0.8	< 5	81	< 0.5	2.6	7000	52	11	37	21000	19	5400	310	< 1.5	48	< 1	48	41	62
		5-10 cm (soil)	21235	17000	< 0.8	< 5	73	< 0.5	< 0.8	6200	48	8	33	20000	14	4500	260	< 1.5	40	< 1	41	38	64
			21236	17000	< 0.8	< 5	72	< 0.5	< 0.8	6100	48	8	32	20000	13	4500	260	< 1.5	43	< 1	42	38	62
		10-20 cm (soil)	21237	12000	< 0.8	< 5	45	< 0.5	< 0.8	4600	39	7	19	17000	13	3800	250	< 1.5	31	< 1	35	35	35
			21238	12000	< 0.8	< 5	46	< 0.5	< 0.8	4600	38	7	20	17000	15	3900	260	< 1.5	29	< 1	38	35	37
Dowling Ballfields, Wy 144																							
5030818 Baseball Outfield	A	0-5 cm (soil)	21239	15000	< 0.8	< 5	54	< 0.5	< 0.8	4700	43	8	29	18000	14	4100	270	< 1.5	42	< 1	39	36	41
			21240	15000	< 0.8	< 5	54	< 0.5	< 0.8	4800	41	8	31	17000	15	4100	250	< 1.5	48	< 1	38	35	39
		5-10 cm (soil)	21241	15000	< 0.8	< 5	48	< 0.5	< 0.8	3300	42	7	21	17000	8	3700	250	< 1.5	34	< 1	32	34	38
			21242	17000	< 0.8	< 5	58	< 0.5	< 0.8	3800	46	7	19	19000	9	3900	280	< 1.5	34	< 1	39	37	39
		10-20 cm (soil)	21243	15000	< 0.8	< 5	55	< 0.5	< 0.8	3300	42	7	14	18000	6	4000	240	< 1.5	29	< 1	33	37	30
			21244	16000	< 0.8	< 5	58	< 0.5	< 0.8	3300	46	8	16	19000	7	4100	270	< 1.5	31	< 1	35	36	33
5030819 Baseball Infield	B	0-5 cm (soil)	21245	7800	< 0.8	< 5	32	< 0.5	< 0.8	8000	27	5	16	13000	6	4500	190	< 1.5	26	< 1	52	26	27
			21246	8000	< 0.8	< 5	33	< 0.5	< 0.8	8100	26	5	15	13000	5	4500	200	< 1.5	25	< 1	54	27	24
5030820 Baseball Outfield	C	0-5 cm (soil)	21247	14000	< 0.8	< 5	57	< 0.5	< 0.8	6800	42	7	24	17000	12	4200	250	< 1.5	39	< 1	47	36	33
			21248	15000	< 0.8	< 5	62	< 0.5	< 0.8	6600	45	7	26	17000	12	4000	260	< 1.5	41	< 1	47	36	35
		5-10 cm (soil)	21249	14000	< 0.8	< 5	52	< 0.5	< 0.8	5700	39	6	20	17000	10	3600	240	< 1.5	36	< 1	46	36	30
			21250	15000	< 0.8	< 5	56	< 0.5	< 0.8	5800	41	7	23	18000	10	3700	260	< 1.5	38	< 1	46	36	32
		10-20 cm (soil)	21251	15000	< 0.8	< 5	53	< 0.5	< 0.8	4500	37	6	18	17000	9	3000	230	< 1.5	30	< 1	43	37	32
5030821 Baseball Infield	D	0-5 cm (soil)	21252	16000	< 0.8	< 5	55	< 0.5	< 0.8	4800	38	6	22	17000	10	3300	240	< 1.5	37	< 1	45	36	33
			21253	7400	< 0.8	< 5	27	< 0.5	< 0.8	14000	26	6	15	13000	5	7300	190	< 1.5	29	< 1	40	26	20
			21254	7400	< 0.8	< 5	29	< 0.5	< 0.8	15000	26	6	17	13000	7	7700	190	< 1.5	27	< 1	41	28	21
Gerard St. Playground, Gerard St.																							
5030814 Play Structure	A	0-5 cm (sand)	21227	5200	< 0.8	< 5	16	< 0.5	< 0.8	2100	21	6	16	14000	6	3400	160	< 1.5	18	< 1	13	29	24
			21228	5900	< 0.8	< 5	19	< 0.5	< 0.8	2900	27	7	20	17000	8	3700	190	< 1.5	20	< 1	20	35	28

Table F (results in bold)	NG	1.0	17	210	1.2	1.0	NG	71	21	85	NG	120	NG	NG	2.5	43	1.9	NG	91	160
Table A (results in bold and underlined)	NG	13	20	750	1.2	12.0	NG	750	40	225	NG	200	NG	NG	40	150	10	NG	200	600
< - less than the Method Detection Limit. NG - no guideline. All results are in µg/g dry wt.																				

Table C4.1: Outer Community Parks

Station	Map ID	Soil Depth	Sample No.	Al	Sb	As	Ba	Be	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Mo	Ni	Se	Sr	V	Zn
Community of Guilletville																							
Guilletville Playground, Simon St.																							
5030664 Green Space	A	0-5 cm (soil)	19806	8000	< 0.8	< 5	25	< 0.5	< 0.8	5300	23	4	37	11000	8	3200	140	< 1.5	46	< 1	23	23	21
			19807	7800	< 0.8	< 5	25	< 0.5	< 0.8	5700	23	4	37	11000	8	3600	140	< 1.5	45	< 1	24	24	21
		5-10 cm (soil)	19808	8300	< 0.8	< 5	27	< 0.5	< 0.8	5700	27	4	27	12000	6	3500	170	< 1.5	36	< 1	29	28	20
			19809	7800	< 0.8	< 5	27	< 0.5	< 0.8	4600	25	4	25	11000	6	3100	160	< 1.5	32	< 1	25	25	18
		10-20 cm (soil)	19810	7000	< 0.8	< 5	23	< 0.5	< 0.8	3400	25	4	13	11000	4	2500	160	< 1.5	25	< 1	25	26	18
			19811	6400	< 0.8	< 5	21	< 0.5	< 0.8	3000	26	4	12	12000	4	2400	170	< 1.5	23	< 1	24	29	15
5030665 Play Structure	B	0-15 cm (sand)	19812	8200	< 0.8	< 5	32	< 0.5	< 0.8	3200	44	8	38	21000	5	4600	270	< 1.5	32	< 1	25	53	30
			19813	8400	< 0.8	< 5	34	< 0.5	< 0.8	3100	47	8	41	21000	6	4700	280	< 1.5	32	< 1	26	50	27
5030666 Play Structure	C	0-15 cm (sand)	19814	7900	< 0.8	< 5	36	< 0.5	< 0.8	2900	51	9	42	22000	5	5000	280	< 1.5	32	< 1	22	54	31
			19815	7700	< 0.8	< 5	35	< 0.5	< 0.8	2900	46	9	42	21000	5	4700	270	< 1.5	32	< 1	22	52	31
5030667 Play Structure	D	0-15 cm (sand)	19816	6200	< 0.8	< 5	31	< 0.5	< 0.8	1900	36	8	41	16000	5	4500	240	< 1.5	25	< 1	10	40	37
			19817	6700	< 0.8	< 5	31	< 0.5	< 0.8	3200	46	8	36	20000	4	4600	260	< 1.5	27	< 1	20	53	34
Community of Hanmer																							
Centennial Ball Park, Centennial Drive																							
5030892 Play Structure	A	0-5 cm (sand)	18352	9400	< 0.8	< 5	33	< 0.5	< 0.8	3600	49	8	27	23000	5	4200	290	< 1.5	27	< 1	35	51	29
			18353	7500	< 0.8	< 5	25	< 0.5	< 0.8	2700	37	9	29	21000	5	4100	240	< 1.5	27	< 1	24	46	30
5030893 Green Space	B	0-5 cm (soil)	18354	9500	< 0.8	< 5	21	< 0.5	< 0.8	3500	26	5	31	13000	10	2100	150	< 1.5	50	< 1	35	27	18
			18355	9600	< 0.8	5	26	< 0.5	< 0.8	3000	26	5	40	14000	11	2100	170	< 1.5	52	< 1	31	27	20
		5-10 cm (soil)	18356	9500	< 0.8	< 5	22	< 0.5	< 0.8	2800	26	6	16	14000	6	2100	170	< 1.5	36	< 1	28	26	17
			18357	8600	1.2	< 5	20	< 0.5	< 0.8	2300	23	5	11	13000	6	1800	130	< 1.5	30	< 1	22	24	15
		10-20 cm (soil)	18358	7700	< 0.8	< 5	23	< 0.5	< 0.8	3000	26	5	11	11000	5	2000	150	< 1.5	26	< 1	29	26	13
			18359	11000	< 0.8	< 5	23	< 0.5	< 0.8	3900	31	5	6.8	14000	4	2200	180	< 1.5	26	< 1	43	32	15
5030894 Baseball Infield	C	0-5 cm (soil)	18360	8600	< 0.8	< 5	39	< 0.5	< 0.8	8600	33	6	20	14000	6	4600	210	< 1.5	33	< 1	80	30	20
			18361	8200	< 0.8	< 5	35	< 0.5	< 0.8	7200	27	5	19	13000	6	3900	200	< 1.5	29	< 1	65	28	17
5030895 Baseball Outfield	D	0-5 cm (soil)	18362	9400	< 0.8	< 5	24	< 0.5	< 0.8	3200	23	4	19	11000	8	1800	140	< 1.5	36	< 1	32	25	18
			18363	9300	< 0.8	< 5	23	< 0.5	< 0.8	2900	22	4	19	11000	7	1700	140	< 1.5	34	< 1	31	25	19
		5-10 cm (soil)	18364	9600	< 0.8	< 5	26	< 0.5	< 0.8	2500	23	4	20	11000	8	1600	130	< 1.5	35	< 1	27	25	15
			18365	9800	< 0.8	< 5	27	< 0.5	< 0.8	2700	24	4	22	12000	7	1700	150	< 1.5	36	< 1	30	26	16
		10-20 cm (soil)	18366	9200	< 0.8	8	27	< 0.5	< 0.8	1800	22	4	26	11000	8	1500	130	< 1.5	37	< 1	20	24	16
			18367	9400	< 0.8	5	27	< 0.5	< 0.8	2200	22	4	28	12000	8	1500	150	< 1.5	36	< 1	26	24	16
5030896 Baseball Infield	E	0-5 cm (soil)	18368	5500	< 0.8	< 5	31	< 0.5	< 0.8	14000	22	5	14	10000	4	5200	170	< 1.5	21	< 1	68	23	13
			18369	8100	< 0.8	< 5	47	< 0.5	< 0.8	16000	28	6	18	13000	5	6400	230	< 1.5	28	< 1	110	29	18
5030897 Baseball Outfield	F	0-5 cm (soil)	18370	12000	< 0.8	< 5	43	< 0.5	< 0.8	5100	31	5	42	14000	10	2500	220	< 1.5	48	< 1	49	32	25

Table F (results in bold)	NG	1.0	17	210	1.2	1.0	NG	71	21	85	NG	120	NG	NG	2.5	43	1.9	NG	91	160
Table A (results in bold and underlined)	NG	13	20	750	1.2	12.0	NG	750	40	225	NG	200	NG	NG	40	150	10	NG	200	600
< - less than the Method Detection Limit. NG - no guideline. All results are in µg/g dry wt.																				

Table C4.1: Outer Community Parks

Table G4.1: Outer Community Parks																								
Station	Map ID	Soil Depth	Sample No.	Al	Sb	As	Ba	Be	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Mo	Ni	Se	Sr	V	Zn	
			18371	12000	< 0.8	< 5	44	< 0.5	< 0.8	5500	34	6	35	14000	10	2600	220	< 1.5	57	< 1	49	32	24	
		5-10 cm (soil)	18372	13000	< 0.8	< 5	46	< 0.5	< 0.8	4500	31	5	35	14000	10	2200	210	< 1.5	45	< 1	49	32	23	
			18373	13000	< 0.8	< 5	46	< 0.5	< 0.8	4800	33	5	32	14000	9	2400	230	< 1.5	42	< 1	48	32	22	
			10-20 cm (soil)	18374	12000	< 0.8	< 5	40	< 0.5	< 0.8	4100	26	5	34	13000	9	2000	230	< 1.5	56	< 1	41	28	22
		18375		9600	< 0.8	< 5	34	< 0.5	< 0.8	3200	24	4	30	12000	8	1900	210	< 1.5	42	< 1	27	28	20	
Elmview Playground,Elmview Drive																								
5030898 Play Structure	A	0-5 cm (sand)	18288	7500	< 0.8	< 5	34	< 0.5	< 0.8	2500	43	10	44	20000	6	4600	250	< 1.5	31	< 1	18	42	31	
			18289	8100	< 0.8	< 5	35	< 0.5	< 0.8	2500	46	10	46	21000	6	4700	270	< 1.5	31	< 1	18	50	33	
5030899 Play Structure	B	0-5 cm (sand)	18290	7500	< 0.8	< 5	29	< 0.5	< 0.8	2600	39	8	35	19000	5	4000	230	< 1.5	28	< 1	25	42	26	
			18291	8900	< 0.8	< 5	34	< 0.5	< 0.8	3600	42	8	35	19000	5	3900	260	< 1.5	26	< 1	34	46	28	
5030900 Baseball Infield	C	0-5 cm (soil)	18292	11000	< 0.8	< 5	90	< 0.5	< 0.8	27000	29	8	29	15000	6	6500	220	< 1.5	36	< 1	110	29	29	
			18293	13000	< 0.8	< 5	100	< 0.5	< 0.8	34000	34	8	31	16000	8	8400	230	< 1.5	42	< 1	140	31	28	
5030901 Baseball Outfield	D	0-5 cm (soil)	18294	10000	< 0.8	< 5	36	< 0.5	< 0.8	4100	28	5	36	13000	13	2100	180	< 1.5	56	< 1	42	28	28	
			18295	12000	< 0.8	< 5	41	< 0.5	< 0.8	5100	32	5	34	13000	12	2200	190	< 1.5	48	< 1	46	30	28	
		5-10 cm (soil)	18296	10000	< 0.8	< 5	34	< 0.5	< 0.8	3500	28	5	32	12000	13	2000	170	< 1.5	45	< 1	35	28	29	
			18297	8400	< 0.8	< 5	32	< 0.5	< 0.8	2300	25	5	34	11000	12	1800	160	< 1.5	46	< 1	22	24	27	
		10-20 cm (soil)	18298	10000	< 0.8	< 5	36	< 0.5	< 0.8	3300	26	4	33	12000	11	1700	170	< 1.5	48	< 1	35	28	26	
			18299	11000	< 0.8	< 5	35	< 0.5	< 0.8	3200	26	4	34	12000	11	1700	160	< 1.5	52	< 1	36	27	24	
Farmdale Playground,4760 Morrie Court																								
5030886 Play Structure	A	0-5 cm (sand)	18332	8900	< 0.8	< 5	34	< 0.5	< 0.8	3200	43	8	39	19000	5	4400	270	< 1.5	28	< 1	32	48	27	
			18333	10000	< 0.8	< 5	44	< 0.5	< 0.8	3700	51	9	48	23000	6	4500	330	< 1.5	30	< 1	41	54	34	
5030887 Play Structure	B	0-5 cm (sand)	18334	11000	< 0.8	< 5	49	< 0.5	< 0.8	3500	47	9	55	22000	6	4800	330	< 1.5	31	< 1	39	52	34	
			18335	11000	< 0.8	< 5	55	< 0.5	< 0.8	3300	49	11	70	24000	8	6000	340	< 1.5	35	< 1	33	51	39	
5030888 Baseball Infield	C	0-5 cm (soil)	18336	7100	< 0.8	< 5	27	< 0.5	< 0.8	3400	30	6	19	14000	4	3100	180	< 1.5	22	< 1	38	32	16	
			18337	7300	< 0.8	< 5	27	< 0.5	< 0.8	3800	30	6	20	14000	4	3300	180	< 1.5	24	< 1	41	30	16	
5030889 Baseball Outfield	D	0-5 cm (soil)	18338	8500	< 0.8	< 5	29	< 0.5	< 0.8	3600	25	4	39	12000	22	2000	180	< 1.5	67	< 1	36	10	28	
			18339	8700	< 0.8	< 5	37	< 0.5	< 0.8	3400	25	4	38	12000	22	2000	180	< 1.5	39	< 1	34	9	30	
		5-10 cm (soil)	18340	8600	< 0.8	< 5	32	< 0.5	< 0.8	2500	24	4	31	11000	23	1700	180	< 1.5	36	< 1	28	25	24	
			18341	8400	< 0.8	< 5	40	< 0.5	< 0.8	2500	24	4	28	11000	35	1700	170	< 1.5	36	< 1	25	25	31	
		10-20 cm (soil)	18342	8600	< 0.8	< 5	29	< 0.5	< 0.8	2400	22	4	13	10000	9	1500	190	< 1.5	27	< 1	27	24	19	
			18343	7600	< 0.8	< 5	34	< 0.5	< 0.8	2200	20	4	24	9900	19	1400	140	< 1.5	31	< 1	22	22	21	
5030890 Baseball Infield	E	0-5 cm (soil)	18344	6700	< 0.8	< 5	46	< 0.5	< 0.8	15000	25	6	21	12000	6	6700	190	< 1.5	30	< 1	110	26	20	
			18345	7300	< 0.8	< 5	46	< 0.5	< 0.8	15000	24	6	23	12000	6	6700	190	< 1.5	30	< 1	110	25	20	
5030891 Baseball Outfield	F	0-5 cm (soil)	18346	9300	< 0.8	< 5	26	< 0.5	< 0.8	4900	26	5	30	12000	10	2200	140	< 1.5	40	< 1	35	26	18	
			18347	11000	< 0.8	< 5	35	< 0.5	< 0.8	4100	31	5	28	13000	10	2400	170	< 1.5	43	< 1	43	28	20	

Table F (results in bold)	NG	1.0	17	210	1.2	1.0	NG	71	21	85	NG	120	NG	NG	2.5	43	1.9	NG	91	160
Table A (results in bold and underlined)	NG	13	20	750	1.2	12.0	NG	750	40	225	NG	200	NG	NG	40	150	10	NG	200	600
< - less than the Method Detection Limit. NG - no guideline. All results are in µg/g dry wt.																				

Table C4.1: Outer Community Parks																								
Station	Map ID	Soil Depth	Sample No.	Al	Sb	As	Ba	Be	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Mo	Ni	Se	Sr	V	Zn	
		5-10 cm (soil)	18348	10000	< 0.8	< 5	32	< 0.5	< 0.8	3700	31	5	24	13000	8	2100	180	< 1.5	34	< 1	43	28	15	
			18349	10000	< 0.8	< 5	29	< 0.5	< 0.8	3300	29	4	19	12000	6	1900	170	< 1.5	30	< 1	41	27	14	
		10-20 cm (soil)	18350	11000	< 0.8	< 5	33	< 0.5	< 0.8	3700	29	4	17	13000	6	1900	180	< 1.5	28	< 1	42	29	14	
			18351	11000	< 0.8	< 5	34	< 0.5	< 0.8	3800	32	5	23	13000	9	2200	190	< 1.5	33	< 1	40	28	16	
Howard Armstrong Bc Centre, 4040 Elmview Dr																								
5030943 Play Structure	A	0-5 cm (sand)	18376	6900	< 0.8	< 5	28	< 0.5	< 0.8	2600	42	8	33	21000	4	4300	230	< 1.5	26	< 1	14	52	31	
			18377	7500	< 0.8	< 5	28	< 0.5	< 0.8	3300	49	8	30	23000	4	4700	250	< 1.5	27	< 1	23	60	32	
5030944 Soccer Field	B	0-5 cm (soil)	19368	11000	< 0.8	< 5	27	< 0.5	< 0.8	5000	23	4	49	13000	11	1900	150	< 1.5	51	< 1	37	8	19	
			19369	9600	0.9	7	27	< 0.5	< 0.8	11000	22	4	43	12000	9	2100	150	< 1.5	45	1	34	24	19	
		5-10 cm (soil)	19370	10000	< 0.8	9	37	< 0.5	< 0.8	2900	25	4	46	13000	10	1700	150	< 1.5	46	< 1	32	26	21	
			19371	11000	< 0.8	9	37	< 0.5	< 0.8	10000	26	6	55	13000	14	1900	170	< 1.5	73	< 1	39	28	22	
		10-20 cm (soil)	19372	11000	1.2	< 5	36	< 0.5	< 0.8	3200	48	5	22	13000	8	2100	170	2.7	48	< 1	35	29	22	
			19373	11000	< 0.8	5	36	< 0.5	< 0.8	3300	27	5	28	13000	10	1900	160	< 1.5	45	< 1	36	28	21	
5030945 Soccer Field	C	0-5 cm (soil)	19374	9700	< 0.8	< 5	36	< 0.5	< 0.8	8300	28	5	43	13000	11	2600	190	< 1.5	59	< 1	41	29	21	
			19375	9000	< 0.8	< 5	34	< 0.5	< 0.8	14000	25	6	42	12000	10	2500	190	< 1.5	60	< 1	40	27	21	
		5-10 cm (soil)	19376	10000	< 0.8	6	36	< 0.5	< 0.8	3000	27	5	57	13000	13	1900	130	< 1.5	67	< 1	30	27	21	
			19377	11000	< 0.8	7	37	< 0.5	< 0.8	6100	27	5	50	13000	14	1900	140	< 1.5	67	< 1	36	28	20	
		10-20 cm (soil)	19378	11000	< 0.8	< 5	39	< 0.5	< 0.8	3400	28	4	28	13000	9	2000	140	< 1.5	37	< 1	36	29	21	
			19379	13000	< 0.8	< 5	45	< 0.5	< 0.8	4200	34	5	19	14000	8	2300	180	< 1.5	33	< 1	43	32	21	
5030946 Soccer Field	D	0-5 cm (soil)	19380	9800	< 0.8	< 5	37	< 0.5	< 0.8	8300	28	5	26	12000	8	2600	190	< 1.5	40	< 1	43	28	27	
			19381	9700	< 0.8	< 5	35	< 0.5	< 0.8	8900	29	5	26	12000	8	2700	190	< 1.5	39	< 1	43	28	23	
		5-10 cm (soil)	19382	12000	< 0.8	< 5	35	< 0.5	< 0.8	4400	29	4	32	14000	9	1800	150	< 1.5	46	< 1	44	30	20	
			19383	11000	< 0.8	< 5	35	< 0.5	< 0.8	4500	28	4	32	13000	9	1800	150	< 1.5	47	< 1	44	29	19	
		10-20 cm (soil)	19384	11000	< 0.8	< 5	38	< 0.5	< 0.8	4400	28	5	37	13000	13	2000	150	< 1.5	55	< 1	43	30	21	
			19385	9200	< 0.8	< 5	27	< 0.5	< 0.8	2700	23	4	41	12000	11	1800	120	< 1.5	50	< 1	27	26	19	
5030947 Soccer Field	E	0-5 cm (soil)	19386	9300	< 0.8	< 5	28	< 0.5	< 0.8	4000	24	4	23	12000	7	2100	150	< 1.5	32	< 1	28	25	23	
			19387	9400	< 0.8	< 5	28	< 0.5	< 0.8	5000	25	6	21	12000	8	2700	160	< 1.5	37	< 1	28	25	22	
		5-10 cm (soil)	19388	9300	< 0.8	< 5	28	< 0.5	< 0.8	2900	27	5	13	12000	6	2100	150	< 1.5	24	< 1	29	26	16	
			19389	9200	< 0.8	< 5	30	< 0.5	< 0.8	2700	26	6	14	12000	5	2200	150	< 1.5	28	< 1	24	25	19	
		10-20 cm (soil)	19390	9400	< 0.8	< 5	26	< 0.5	< 0.8	3500	28	5	9.5	12000	5	2200	170	< 1.5	20	< 1	33	26	13	
			19391	10000	< 0.8	< 5	30	< 0.5	< 0.8	4300	31	6	9.9	14000	4	2600	200	< 1.5	22	< 1	40	30	14	

Table F (results in bold)	NG	1.0	17	210	1.2	1.0	NG	71	21	85	NG	120	NG	NG	2.5	43	1.9	NG	91	160
Table A (results in bold and underlined)	NG	13	20	750	1.2	12.0	NG	750	40	225	NG	200	NG	NG	40	150	10	NG	200	600
< - less than the Method Detection Limit. NG - no guideline. All results are in µg/g dry wt.																				

Table C4.1: Outer Community Parks

Station	Map ID	Soil Depth	Sample No.	Al	Sb	As	Ba	Be	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Mo	Ni	Se	Sr	V	Zn
St. Joseph Ball Park (Lions Playground), 4611 St. Joseph St.																							
5030881 Play Structure	A	0-5 cm (sand)	18306	7800	< 0.8	< 5	26	< 0.5	< 0.8	2900	45	8	35	24000	5	4300	250	< 1.5	28	< 1	26	53	28
			18307	8500	< 0.8	< 5	28	< 0.5	< 0.8	3200	49	8	32	26000	5	4000	270	< 1.5	26	< 1	29	62	29
5030882 Play Structure	B	0-5 cm (sand)	18308	10000	< 0.8	< 5	38	< 0.5	< 0.8	4100	52	8	37	26000	6	4300	310	< 1.5	26	< 1	40	60	36
			18309	10000	< 0.8	< 5	37	< 0.5	< 0.8	3800	47	8	39	24000	5	4300	280	< 1.5	26	< 1	39	53	37
5030883 Baseball Outfield	C	0-5 cm (soil)	18310	11000	< 0.8	< 5	35	< 0.5	< 0.8	4500	26	4	37	12000	10	2100	170	< 1.5	46	< 1	40	26	22
			18311	11000	< 0.8	< 5	35	< 0.5	< 0.8	4200	26	4	32	12000	10	2000	170	< 1.5	44	< 1	40	26	22
		5-10 cm (soil)	18312	11000	< 0.8	< 5	32	< 0.5	< 0.8	3700	24	4	25	12000	9	1900	160	< 1.5	37	< 1	34	26	21
			18313	11000	< 0.8	< 5	33	< 0.5	< 0.8	3200	25	4	25	12000	8	1800	160	< 1.5	35	< 1	33	26	21
		10-20 cm (soil)	18314	9900	< 0.8	< 5	31	< 0.5	< 0.8	2800	24	5	17	12000	8	1900	160	< 1.5	38	< 1	29	24	17
			18315	10000	< 0.8	< 5	28	< 0.5	< 0.8	2500	26	5	11	12000	5	1900	160	< 1.5	29	< 1	27	24	15
5030884 Baseball Infield	D	0-5 cm (soil)	18316	5700	< 0.8	< 5	31	< 0.5	< 0.8	13000	22	5	18	11000	6	5400	160	< 1.5	25	< 1	61	23	28
			18317	5900	< 0.8	< 5	33	< 0.5	< 0.8	15000	23	6	20	12000	6	5600	170	< 1.5	30	< 1	64	24	35
5030885 Baseball Outfield	E	0-5 cm (soil)	18318	7800	< 0.8	< 5	24	< 0.5	< 0.8	2600	24	5	26	11000	12	2000	120	< 1.5	41	< 1	23	22	26
			18319	6800	< 0.8	< 5	26	< 0.5	< 0.8	2400	25	4	28	10000	12	1900	110	< 1.5	41	< 1	20	22	23
		5-10 cm (soil)	18320	8200	< 0.8	< 5	22	< 0.5	< 0.8	2000	24	4	29	11000	12	1900	120	< 1.5	41	< 1	19	24	20
			18321	7900	< 0.8	< 5	22	< 0.5	< 0.8	2000	24	4	25	11000	10	1800	130	< 1.5	37	< 1	21	25	18
		10-20 cm (soil)	18322	8400	< 0.8	< 5	27	< 0.5	< 0.8	1900	23	4	29	11000	11	1800	130	< 1.5	39	< 1	18	23	18
			18323	8200	< 0.8	< 5	26	< 0.5	< 0.8	1800	24	4	25	11000	10	1800	130	< 1.5	38	< 1	18	23	18
Theresa Playground (Mhmer Playground), Spruce St.																							
5030879 Play Structure	A	0-5 cm (sand)	18324	6600	< 0.8	< 5	32	< 0.5	< 0.8	1500	34	8	37	16000	6	3700	220	< 1.5	27	< 1	10	38	29
			18325	7800	< 0.8	< 5	36	< 0.5	< 0.8	1900	36	8	46	18000	6	4000	240	< 1.5	29	< 1	14	41	34
5030880 Baseball Outfield	B	0-5 cm (soil)	18326	6600	< 0.8	< 5	22	< 0.5	< 0.8	1700	22	4	24	10000	8	1900	130	< 1.5	34	< 1	13	23	18
			18327	7000	< 0.8	< 5	22	< 0.5	< 0.8	1600	22	5	27	10000	10	1800	130	< 1.5	38	< 1	13	22	19
		5-10 cm (soil)	18328	7100	< 0.8	< 5	26	< 0.5	< 0.8	1700	24	5	24	10000	8	1900	150	< 1.5	34	< 1	14	23	17
			18329	7300	< 0.8	< 5	26	< 0.5	< 0.8	2100	24	5	21	10000	8	1900	170	< 1.5	32	< 1	20	24	17
		10-20 cm (soil)	18330	10000	< 0.8	< 5	36	< 0.5	< 0.8	3400	31	5	17	13000	6	2000	250	< 1.5	28	< 1	42	30	19
			18331	11000	< 0.8	< 5	36	< 0.5	< 0.8	3800	32	4	12	13000	5	2100	200	< 1.5	24	< 1	43	30	16
Station	Map ID	Soil Depth	Sample No.	Al	Sb	As	Ba	Be	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Mo	Ni	Se	Sr	V	Zn

Table F (results in bold)	NG	1.0	17	210	1.2	1.0	NG	71	21	85	NG	120	NG	NG	2.5	43	1.9	NG	91	160
Table A (results in bold and underlined)	NG	13	20	750	1.2	12.0	NG	750	40	225	NG	200	NG	NG	40	150	10	NG	200	600
< - less than the Method Detection Limit.																				
NG - no guideline.																				
All results are in µg/g dry wt.																				

Table C4.1: Outer Community Parks

Station	Map ID	Soil Depth	Sample No.	Al	Sb	As	Ba	Be	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Mo	Ni	Se	Sr	V	Zn
Community of Levack																							
4th Avenue Playground,4th Avenue																							
5030800 Green Space	A	0-5 cm (soil)	21475	8500	< 0.8	< 5	32	< 0.5	< 0.8	4700	35	7	35	16000	14	3700	270	< 1.5	45	< 1	33	33	36
			21476	8200	< 0.8	< 5	30	< 0.5	< 0.8	4900	32	7	33	15000	14	3700	240	< 1.5	44	< 1	32	30	33
		5-10 cm (soil)	21477	11000	< 0.8	< 5	41	< 0.5	< 0.8	7000	40	8	51	18000	19	4200	300	< 1.5	71	< 1	44	37	40
			21478	10000	< 0.8	< 5	38	< 0.5	< 0.8	6100	37	8	46	16000	16	3900	260	< 1.5	62	< 1	36	33	37
		10-20 cm (soil)	21479	9000	< 0.8	< 5	34	< 0.5	< 0.8	5500	36	9	61	17000	36	4400	280	< 1.5	67	< 1	30	34	52
			21480	10000	< 0.8	< 5	39	< 0.5	< 0.8	6700	38	8	42	17000	19	4200	270	< 1.5	59	< 1	41	36	34
5030801 Play Structure	B	0-5 cm (sand)	21481	5800	< 0.8	< 5	19	< 0.5	< 0.8	3000	30	7	20	15000	5	3800	190	< 1.5	25	< 1	22	32	31
			21482	8000	< 0.8	< 5	28	< 0.5	< 0.8	4300	39	7	19	19000	6	4100	230	< 1.5	25	< 1	36	42	34
Larch St. Playground,Larch St.																							
5030805 Play Structure	A	0-5 cm (sand)	21497	5400	< 0.8	7	24	< 0.5	< 0.8	2800	31	7	18	16000	8	3600	210	< 1.5	32	< 1	20	38	29
			21498	5100	< 0.8	6	15	< 0.5	< 0.8	2200	29	4	18	16000	5	3400	160	< 1.5	17	< 1	14	37	29
5030806 Green Space	B	0-5 cm (soil)	21499	9900	< 0.8	6	33	< 0.5	< 0.8	4500	34	6	25	15000	10	3600	250	< 1.5	38	< 1	31	30	30
			21500	12000	< 0.8	< 5	57	< 0.5	< 0.8	6900	46	7	25	18000	11	4300	290	< 1.5	38	< 1	49	38	37
		5-10 cm (soil)	21501	9300	< 0.8	< 5	26	< 0.5	< 0.8	3500	30	7	23	16000	15	3700	200	< 1.5	51	< 1	23	32	26
			21502	11000	< 0.8	< 5	37	< 0.5	< 0.8	5200	37	5	26	16000	10	3700	260	< 1.5	34	< 1	36	33	30
		10-20 cm (soil)	21503	11000	< 0.8	< 5	42	< 0.5	< 0.8	5600	39	6	26	16000	10	3700	270	< 1.5	38	< 1	41	34	32
			21504	12000	< 0.8	< 5	47	< 0.5	< 0.8	6100	39	6	26	17000	12	4100	270	< 1.5	33	< 1	46	38	31
Levack Ball Park,2nd Avenue																							
5030802 Soccer Field	A	0-5 cm (soil)	21483	11000	< 0.8	< 5	50	< 0.5	< 0.8	4400	31	5	19	14000	10	2300	160	< 1.5	29	< 1	41	32	26
			21484	10000	< 0.8	< 5	42	< 0.5	< 0.8	4600	27	5	22	13000	12	2500	150	< 1.5	34	< 1	39	29	25
		5-10 cm (soil)	21485	10000	< 0.8	< 5	38	< 0.5	< 0.8	4600	29	6	29	14000	9	2400	190	< 1.5	44	< 1	38	31	22
			21486	10000	< 0.8	< 5	36	< 0.5	< 0.8	4700	31	5	29	14000	8	2500	190	< 1.5	40	< 1	40	31	23
		10-20 cm (soil)	21487	11000	< 0.8	< 5	40	< 0.5	< 0.8	6300	36	6	25	16000	8	3500	230	< 1.5	35	< 1	45	34	26
			21488	10000	< 0.8	< 5	40	< 0.5	< 0.8	6600	35	7	18	14000	8	3500	230	< 1.5	36	< 1	41	32	25
5030803 Baseball Outfield	B	0-5 cm (soil)	21489	11000	< 0.8	< 5	45	< 0.5	< 0.8	5800	36	7	46	16000	12	3500	230	< 1.5	40	< 1	41	32	45
			21490	10000	1.6	< 5	44	< 0.5	< 0.8	6800	35	8	36	15000	15	3800	210	< 1.5	49	< 1	40	31	41
		5-10 cm (soil)	21491	10000	< 0.8	< 5	38	< 0.5	< 0.8	4000	33	7	67	16000	14	3100	200	< 1.5	55	< 1	32	33	37
			21492	10000	< 0.8	< 5	36	< 0.5	< 0.8	4400	33	7	44	16000	10	3300	210	< 1.5	46	< 1	32	31	32
		10-20 cm (soil)	21493	9700	< 0.8	< 5	35	< 0.5	< 0.8	2900	29	9	100	17000	25	3000	180	< 1.5	94	< 1	25	34	44
			21494	9300	< 0.8	< 5	31	< 0.5	< 0.8	3500	30	8	70	16000	19	3300	190	< 1.5	70	< 1	30	35	42
5030804 Baseball Infield	C	0-5 cm (soil)	21495	6600	< 0.8	< 5	26	< 0.5	< 0.8	4600	22	6	15	11000	6	3200	160	< 1.5	29	< 1	37	24	23
			21496	6500	< 0.8	< 5	27	< 0.5	< 0.8	4900	22	5	15	11000	5	3300	150	< 1.5	23	< 1	41	24	24

Table F (results in bold)	NG	1.0	17	210	1.2	1.0	NG	71	21	85	NG	120	NG	NG	2.5	43	1.9	NG	91	160
Table A (results in bold and underlined)	NG	13	20	750	1.2	12.0	NG	750	40	225	NG	200	NG	NG	40	150	10	NG	200	600
< - less than the Method Detection Limit. NG - no guideline. All results are in µg/g dry wt.																				

Table C4.1: Outer Community Parks																								
Station	Map ID	Soil Depth	Sample No.	Al	Sb	As	Ba	Be	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Mo	Ni	Se	Sr	V	Zn	
Community of Naughton																								
Naughton Ballfield,1 Denis St.																								
5030924 Baseball Infield	A	0-5 cm (gravel)	18200	5600	< 0.8	< 5	37	< 0.5	< 0.8	13000	21	5	19	9400	5	6700	160	< 1.5	29	< 1	89	20	16	
			18201	5300	< 0.8	< 5	33	< 0.5	< 0.8	11000	19	5	19	8200	5	6000	150	< 1.5	28	< 1	76	18	15	
5030925 Baseball Outfield	B	0-5 cm (soil)	18202	7500	< 0.8	< 5	25	< 0.5	< 0.8	3200	24	4	28	10000	6	2100	140	< 1.5	35	< 1	34	24	16	
			18203	8300	< 0.8	< 5	27	< 0.5	< 0.8	3200	25	5	23	11000	6	2200	150	< 1.5	33	< 1	35	25	16	
		5-10 cm (soil)	18204	7600	< 0.8	< 5	22	< 0.5	< 0.8	3100	26	5	14	11000	4	2300	150	< 1.5	22	< 1	33	25	14	
			18205	7300	< 0.8	< 5	22	< 0.5	< 0.8	3400	24	4	12	11000	4	2300	150	< 1.5	21	< 1	33	24	13	
		10-20 cm (soil)	18206	6000	< 0.8	< 5	18	< 0.5	< 0.8	2900	23	4	6.5	9700	3	2100	160	< 1.5	15	< 1	29	23	12	
			18207	7200	< 0.8	< 5	21	< 0.5	< 0.8	3100	23	4	8.3	11000	3	2100	170	< 1.5	17	< 1	32	24	12	
Sports Complex (Simon Lake Sports Complex),36 Phil St.																								
5030918 Baseball Infield	A	0-5 cm (soil)	18176	13000	< 0.8	< 5	64	< 0.5	< 0.8	12000	43	8	31	20000	8	7500	300	< 1.5	35	< 1	100	38	32	
			18177	13000	< 0.8	< 5	72	< 0.5	< 0.8	16000	41	8	31	19000	8	9500	300	< 1.5	36	< 1	140	39	32	
5030919 Baseball Outfield	B	0-5 cm (soil)	18178	12000	< 0.8	< 5	48	< 0.5	< 0.8	8400	36	8	33	16000	11	4000	280	< 1.5	62	< 1	47	34	27	
			18179	10000	< 0.8	< 5	38	< 0.5	< 0.8	7300	30	6	36	14000	11	3500	250	< 1.5	56	< 1	40	30	26	
		5-10 cm (soil)	18180	10000	< 0.8	< 5	41	< 0.5	< 0.8	6800	32	7	42	15000	11	3600	280	< 1.5	57	< 1	38	30	29	
			18181	9900	< 0.8	< 5	38	< 0.5	< 0.8	6400	32	7	34	15000	10	3700	260	< 1.5	51	< 1	35	30	26	
		10-20 cm (soil)	18182	8900	< 0.8	< 5	40	< 0.5	< 0.8	4200	27	7	39	13000	11	2800	290	< 1.5	54	< 1	27	27	29	
			18183	9400	1.6	< 5	36	< 0.5	< 0.8	4300	27	6	32	14000	10	2700	250	< 1.5	45	< 1	29	28	25	
5030920 Baseball Infield	C	0-5 cm (soil)	18184	5800	< 0.8	< 5	32	< 0.5	< 0.8	10000	19	4	16	9300	4	5400	210	< 1.5	28	< 1	75	20	14	
			18185	5900	< 0.8	< 5	34	< 0.5	< 0.8	12000	20	5	15	9700	5	6000	210	< 1.5	29	< 1	82	20	14	
5030921 Baseball Outfield	D	0-5 cm (soil)	18186	8500	< 0.8	< 5	36	< 0.5	< 0.8	4000	24	6	38	12000	9	2300	230	< 1.5	53	< 1	35	26	20	
			18187	7100	< 0.8	< 5	32	< 0.5	< 0.8	3000	22	6	36	11000	9	2100	180	< 1.5	53	< 1	26	22	18	
		5-10 cm (soil)	18188	6600	< 0.8	< 5	24	< 0.5	< 0.8	2300	20	4	22	10000	6	1700	140	< 1.5	32	< 1	19	21	14	
			18189	6600	< 0.8	< 5	26	< 0.5	< 0.8	2600	20	5	24	9700	6	1700	140	< 1.5	36	< 1	21	21	15	
		10-20 cm (soil)	18190	7900	< 0.8	< 5	24	< 0.5	< 0.8	3000	23	4	14	11000	6	1800	150	< 1.5	27	< 1	28	26	15	
			18191	8000	< 0.8	< 5	31	< 0.5	< 0.8	3800	23	5	22	11000	8	1800	180	< 1.5	37	< 1	39	25	17	
5030922 Play Structure	E	0-5 cm (sand)	18192	7500	< 0.8	< 5	27	< 0.5	< 0.8	4000	23	6	27	17000	10	3100	220	< 1.5	26	< 1	37	35	27	
			18193	6200	< 0.8	< 5	20	< 0.5	< 0.8	3300	21	6	26	16000	9	2800	200	< 1.5	24	< 1	29	36	26	
5030923 Green Space	F	0-5 cm (soil)	18194	10000	< 0.8	< 5	41	< 0.5	< 0.8	5300	30	7	27	13000	8	2700	240	< 1.5	41	< 1	42	29	22	
			18195	9500	< 0.8	< 5	36	< 0.5	< 0.8	5200	28	7	30	13000	8	2700	250	< 1.5	42	< 1	40	29	23	
		5-10 cm (soil)	18196	9600	< 0.8	< 5	35	< 0.5	< 0.8	5300	25	6	26	13000	8	2600	220	< 1.5	41	< 1	40	28	22	
			18197	7000	< 0.8	< 5	28	< 0.5	< 0.8	3000	22	6	27	11000	8	2200	180	< 1.5	37	< 1	22	23	22	
		10-20 cm (soil)	18198	7600	< 0.8	< 5	32	< 0.5	< 0.8	3200	22	5	35	10000	10	2000	190	< 1.5	46	< 1	23	24	22	
			18199	7700	< 0.8	< 5	32	< 0.5	< 0.8	2900	19	5	36	10000	10	1900	170	< 1.5	49	< 1	20	22	20	

Table F (results in bold)	NG	1.0	17	210	1.2	1.0	NG	71	21	85	NG	120	NG	NG	2.5	43	1.9	NG	91	160
Table A (results in bold and underlined)	NG	13	20	750	1.2	12.0	NG	750	40	225	NG	200	NG	NG	40	150	10	NG	200	600
< - less than the Method Detection Limit.																				
NG - no guideline.																				
All results are in µg/g dry wt.																				

Table C4.1: Outer Community Parks																								
Station	Map ID	Soil Depth	Sample No.	Al	Sb	As	Ba	Be	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Mo	Ni	Se	Sr	V	Zn	
Simon Lake Park,263 Simon Lake Drive																								
5030914 Beach	A	0-5 cm (sand)	18160	6200	< 0.8	< 5	20	< 0.5	< 0.8	2700	30	9	30	16000	6	4100	190	< 1.5	30	< 1	20	32	29	
			18161	6800	< 0.8	6	23	< 0.5	< 0.8	3100	31	8	30	15000	5	3900	200	< 1.5	29	< 1	26	33	35	
5030915 Play Structure	B	0-5 cm (sand)	18162	6600	< 0.8	< 5	21	< 0.5	< 0.8	3100	29	8	25	15000	6	4200	200	< 1.5	25	< 1	26	33	26	
			18163	5200	< 0.8	< 5	17	< 0.5	< 0.8	2200	25	8	26	13000	4	3400	170	< 1.5	27	< 1	14	27	27	
5030916 Green Space	C	0-5 cm (soil)	18164	6300	< 0.8	< 5	37	< 0.5	< 0.8	2800	19	5	49	10000	23	1800	140	< 1.5	63	< 1	22	21	29	
			18165	6000	< 0.8	< 5	43	< 0.5	< 0.8	2700	18	6	56	10000	31	1800	140	< 1.5	83	< 1	22	21	42	
		5-10 cm (soil)	18166	6400	< 0.8	< 5	38	< 0.5	< 0.8	2400	18	4	42	10000	20	1600	110	< 1.5	54	< 1	20	22	30	
			18167	6000	< 0.8	5	56	< 0.5	< 0.8	2800	18	6	55	9400	38	1600	140	< 1.5	70	< 1	25	21	60	
		10-20 cm (soil)	18168	6500	< 0.8	< 5	40	< 0.5	< 0.8	2400	17	4	28	9500	20	1600	110	< 1.5	40	< 1	21	22	31	
			18169	6300	< 0.8	< 5	67	< 0.5	< 0.8	2600	17	4	26	10000	43	1600	120	< 1.5	39	< 1	23	22	57	
5030917 Green Space	D	0-5 cm (soil)	18170	7000	< 0.8	< 5	35	< 0.5	< 0.8	3000	25	6	45	13000	22	2300	180	< 1.5	59	< 1	23	26	32	
			18171	6500	< 0.8	< 5	33	< 0.5	< 0.8	2600	21	5	39	12000	17	2000	170	< 1.5	49	< 1	20	24	28	
		5-10 cm (soil)	18172	6800	< 0.8	< 5	34	< 0.5	< 0.8	2400	21	5	31	12000	13	2100	150	< 1.5	40	< 1	20	26	26	
			18173	8100	< 0.8	< 5	39	< 0.5	< 0.8	3200	23	5	31	14000	12	2200	180	< 1.5	42	< 1	28	29	29	
		10-20 cm (soil)	18174	12000	< 0.8	< 5	59	< 0.5	< 0.8	4400	30	6	22	17000	10	2500	200	< 1.5	34	< 1	40	38	27	
			18175	11000	< 0.8	< 5	51	< 0.5	< 0.8	4400	28	5	19	17000	11	2700	200	< 1.5	31	< 1	38	36	27	
Community of Oaping Falls																								
Fraser Park (Oaping Tot Lot),Fraser Ave.																								
5030809 Play Structure	A	0-5 cm (sand)	21205	5200	< 0.8	< 5	20	< 0.5	< 0.8	2300	27	6	18	12000	4	3400	170	< 1.5	18	< 1	16	29	23	
			21206	6200	< 0.8	< 5	22	< 0.5	< 0.8	3100	29	6	19	15000	4	3500	190	< 1.5	19	< 1	25	33	25	
Gill Loop Playground,Gill Ave.																								
5030807 Green Space	A	0-5 cm (soil)	21197	8800	< 0.8	< 5	34	< 0.5	< 0.8	3500	31	7	30	15000	22	3000	210	1.7	31	< 1	34	35	37	
			21198	7800	< 0.8	< 5	28	< 0.5	< 0.8	3000	30	6	29	14000	26	3000	190	< 1.5	29	< 1	28	33	36	
		5-10 cm (soil)	21199	11000	< 0.8	< 5	39	< 0.5	< 0.8	3200	31	7	30	16000	16	2700	240	< 1.5	32	< 1	34	36	43	
			21200	11000	< 0.8	< 5	37	< 0.5	< 0.8	3100	30	6	25	15000	16	2600	240	< 1.5	31	< 1	32	36	43	
		10-20 cm (soil)	21201	14000	< 0.8	< 5	45	< 0.5	< 0.8	3300	32	6	16	18000	7	2600	280	< 1.5	27	< 1	38	38	39	
			21202	12000	< 0.8	< 5	53	< 0.5	< 0.8	3700	36	6	19	16000	10	2500	330	< 1.5	26	< 1	42	39	54	
5030808 Play Structure	B	0-5 cm (sand)	21203	6800	< 0.8	< 5	26	< 0.5	< 0.8	3000	27	6	19	14000	5	3200	200	< 1.5	20	< 1	25	32	25	
			21204	7200	< 0.8	< 5	24	< 0.5	< 0.8	3000	28	6	19	14000	5	3100	200	< 1.5	21	< 1	27	32	26	

Table F (results in bold)	NG	1.0	17	210	1.2	1.0	NG	71	21	85	NG	120	NG	NG	2.5	43	1.9	NG	91	160
Table A (results in bold and underlined)	NG	13	20	750	1.2	12.0	NG	750	40	225	NG	200	NG	NG	40	150	10	NG	200	600
< - less than the Method Detection Limit. NG - no guideline. All results are in µg/g dry wt.																				

Table C4.1: Outer Community Parks

Station	Map ID	Soil Depth	Sample No.	Al	Sb	As	Ba	Be	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Mo	Ni	Se	Sr	V	Zn
Opening Community Centre Playground,Hsides Ave.																							
5030810 Ball Diamond	A	0-5 cm (soil)	21207	6800	< 0.8	< 5	24	< 0.5	< 0.8	3100	25	4	15	11000	6	2300	150	< 1.5	22	< 1	28	28	27
			21208	8300	< 0.8	< 5	32	< 0.5	< 0.8	4000	30	5	15	12000	6	2500	180	< 1.5	22	< 1	38	31	35
		5-10 cm (soil)	21209	9500	< 0.8	< 5	33	< 0.5	< 0.8	3700	29	5	12	13000	4	2400	190	< 1.5	19	< 1	40	32	26
			21210	8300	< 0.8	< 5	30	< 0.5	< 0.8	3400	27	4	11	12000	5	2300	180	< 1.5	18	< 1	37	30	25
		10-20 cm (soil)	21211	7400	< 0.8	< 5	22	< 0.5	< 0.8	2800	25	4	6.7	11000	3	2000	150	< 1.5	14	< 1	31	31	20
			21212	9300	< 0.8	< 5	34	< 0.5	< 0.8	3400	29	4	9.6	12000	4	2100	180	< 1.5	15	< 1	40	34	23
5030811 Ball Diamond	B	0-5 cm (soil)	21213	9600	< 0.8	< 5	43	< 0.5	< 0.8	5800	32	4	16	13000	8	3200	190	< 1.5	25	< 1	60	31	22
			21214	7200	< 0.8	< 5	25	< 0.5	< 0.8	3800	26	5	15	12000	8	2700	170	< 1.5	25	< 1	31	29	21
		5-10 cm (soil)	21215	7000	< 0.8	< 5	19	< 0.5	< 0.8	2400	23	4	9	12000	5	2300	140	< 1.5	19	< 1	25	28	18
			21216	6400	< 0.8	< 5	17	< 0.5	< 0.8	2300	22	4	10	11000	5	2300	140	< 1.5	20	< 1	22	26	18
		10-20 cm (soil)	21217	6400	< 0.8	< 5	19	< 0.5	< 0.8	1900	22	5	6.5	14000	6	2200	150	< 1.5	17	< 1	19	26	18
			21218	6600	< 0.8	< 5	19	< 0.5	< 0.8	2200	22	5	9.1	11000	5	2300	140	< 1.5	18	< 1	22	27	17
5030812 Play Structure	C	0-5 cm (sand)	21219	5200	< 0.8	6	15	< 0.5	< 0.8	2400	28	7	21	14000	6	3300	160	< 1.5	20	< 1	18	29	29
			21220	5300	< 0.8	6	16	< 0.5	< 0.8	2400	29	6	23	16000	7	2900	170	< 1.5	20	< 1	22	36	31
Community of Skead																							
Brighton Street Playground,Brighton Street																							
5030965 Play Structure	A	0-5 cm (sand)	21791																				
			21792	5400	< 0.8	< 5	29	< 0.5	< 0.8	2700	28	9	26	15000	6	3400	200	< 1.5	33	< 1	22	33	26
5030966 Play Structure	B	0-5 cm (sand)	21793	4300	< 0.8	< 5	17	< 0.5	< 0.8	2000	21	6	15	11000	5	2700	140	< 1.5	22	< 1	17	24	17
			21794	4100	< 0.8	< 5	19	< 0.5	< 0.8	1700	21	7	23	10000	5	2600	140	< 1.5	30	< 1	14	22	19
5030967 Green Space	C	0-5 cm (soil)	21795	7900	< 0.8	8	39	< 0.5	< 0.8	3400	26	11	73	14000	15	3000	210	< 1.5	90	< 1	30	29	38
			21796	7000	< 0.8	< 5	37	< 0.5	< 0.8	3500	26	14	72	14000	19	3100	210	< 1.5	110	< 1	27	27	42
		5-10 cm (soil)	21797	11000	< 0.8	5	58	< 0.5	< 0.8	4700	33	11	61	15000	11	3300	220	< 1.5	71	< 1	41	33	27
			21798	11000	< 0.8	6	62	< 0.5	< 0.8	3900	34	12	61	16000	12	3100	200	< 1.5	86	< 1	39	33	33
		10-20 cm (soil)	21799	11000	< 0.8	5	60	< 0.5	< 0.8	4400	34	11	45	16000	9	3100	250	< 1.5	62	< 1	42	33	26
			21800	9000	< 0.8	5	46	< 0.5	< 0.8	3900	30	10	48	14000	11	3000	220	< 1.5	67	< 1	37	32	29
MacLennan Playground (Silver Birch Crescent Playground) ,McLennan Silver Birch Crescent																							
5030960 Play Structure	A	0-5 cm (sand)	21775	3600	< 0.8	< 5	24	< 0.5	< 0.8	1800	19	5	15	10000	2	2400	130	< 1.5	16	< 1	12	22	13
			21776	4100	< 0.8	< 5	24	< 0.5	< 0.8	2000	19	4	14	11000	3	2500	130	< 1.5	13	< 1	16	23	14
5030961 Play Structure	B	0-5 cm (sand)	21777	5100	< 0.8	< 5	31	< 0.5	< 0.8	2400	21	7	19	12000	4	3000	160	< 1.5	23	< 1	19	24	19
			21778	5500	< 0.8	< 5	35	< 0.5	< 0.8	2600	22	7	20	12000	5	3100	170	< 1.5	23	< 1	22	26	20

Table F (results in bold)	NG	1.0	17	210	1.2	1.0	NG	71	21	85	NG	120	NG	NG	2.5	43	1.9	NG	91	160
Table A (results in bold and underlined)	NG	13	20	750	1.2	12.0	NG	750	40	225	NG	200	NG	NG	40	150	10	NG	200	600
< - less than the Method Detection Limit. NG - no guideline. All results are in µg/g dry wt.																				

Table C4.1: Outer Community Parks

Station	Map ID	Soil Depth	Sample No.	Al	Sb	As	Ba	Be	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Mo	Ni	Se	Sr	V	Zn
Skead Community Centre,3971 Skead R.																							
5030962 Baseball Infield	A	0-5 cm (soil)	21779	9800	< 0.8	< 5	52	< 0.5	< 0.8	4800	34	8	28	14000	6	3200	220	< 1.5	28	< 1	40	33	34
			21780	9700	< 0.8	< 5	46	< 0.5	< 0.8	3900	30	7	27	14000	6	3100	210	< 1.5	28	< 1	39	31	34
5030963 Baseball Outfield	B	0-5 cm (soil)	21781	9800	< 0.8	< 5	32	< 0.5	< 0.8	3500	24	4	40	12000	14	1600	170	< 1.5	52	< 1	36	27	26
			21782	10000	< 0.8	< 5	33	< 0.5	< 0.8	4100	26	4	33	12000	11	1600	140	< 1.5	48	< 1	37	27	23
		5-10 cm (soil)	21783	11000	< 0.8	< 5	37	< 0.5	< 0.8	3500	26	4	41	13000	11	1800	130	< 1.5	44	< 1	38	29	18
			21784	8800	< 0.8	< 5	26	< 0.5	< 0.8	2300	21	4	33	11000	9	1400	99	< 1.5	37	< 1	27	24	15
		10-20 cm (soil)	21785	9200	< 0.8	< 5	32	< 0.5	< 0.8	2200	22	4	41	12000	11	1600	110	< 1.5	44	< 1	26	26	16
			21786	8700	< 0.8	< 5	29	< 0.5	< 0.8	2300	22	4	36	11000	10	1600	110	< 1.5	42	< 1	26	24	16
5030964 Green Space	C	0-5 cm (soil)	21787	7000	< 0.8	< 5	22	< 0.5	< 0.8	3100	23	4	8.6	9600	4	2100	130	< 1.5	19	< 1	24	23	13
			21788	7800	< 0.8	< 5	23	< 0.5	< 0.8	4000	26	4	9.5	11000	4	2400	150	< 1.5	20	< 1	32	26	14
		5-10 cm (soil)	21789	7900	< 0.8	< 5	24	< 0.5	< 0.8	3100	26	5	8.2	11000	4	2000	160	< 1.5	19	< 1	31	26	12
			21790	6900	< 0.8	< 5	22	< 0.5	< 0.8	2600	24	4	7.3	10000	4	1900	150	< 1.5	18	< 1	24	24	12
Community of Val Caron																							
Carol Rhard Playground,George St.																							
5030662 Green Space	A	0-5 cm (soil)	19798	5900	< 0.8	< 5	21	< 0.5	< 0.8	2700	19	5	27	10000	14	2200	190	< 1.5	38	< 1	26	21	21
			19799	6800	< 0.8	< 5	26	< 0.5	< 0.8	3500	25	5	30	11000	10	2200	230	< 1.5	42	< 1	34	25	24
		5-10 cm (soil)	19800	7800	< 0.8	< 5	30	< 0.5	< 0.8	3800	25	5	22	13000	7	2200	220	< 1.5	35	< 1	37	27	25
			19801	7100	< 0.8	< 5	28	< 0.5	< 0.8	3500	24	5	22	12000	7	2300	240	< 1.5	33	< 1	34	26	23
		10-20 cm (soil)	19802	7700	< 0.8	< 5	32	< 0.5	< 0.8	3700	25	6	28	15000	45	2100	290	< 1.5	42	< 1	33	30	37
			19803	6100	< 0.8	< 5	30	< 0.5	< 0.8	3100	22	4	14	11000	5	1800	210	< 1.5	22	< 1	25	25	30
5030663 Play Structure	B	0-15 cm (sand)	19804	7500	< 0.8	< 5	36	< 0.5	< 0.8	2100	36	11	42	17000	5	4400	280	< 1.5	27	< 1	16	40	29
			19805	7600	< 0.8	< 5	31	< 0.5	< 0.8	2300	37	8	43	19000	5	4400	250	< 1.5	26	< 1	17	44	29
Confederation Arena,Mene St. (* -Stations 5030638 to 5030641 were also sampled separately as part of the Valley East Co-op school)																							
5030638* Green Space	A	0-5 cm (soil)	19818	9200	< 0.8	< 5	29	< 0.5	< 0.8	2700	24	4	41	11000	10	1800	140	< 1.5	47	< 1	30	26	27
			19819	12000	< 0.8	< 5	41	< 0.5	< 0.8	4100	32	4	46	13000	11	2000	180	< 1.5	51	< 1	47	32	42
		5-10 cm (soil)	19820	13000	< 0.8	< 5	45	< 0.5	< 0.8	4500	33	4	41	14000	12	2200	170	< 1.5	51	< 1	48	33	25
			19821	12000	< 0.8	< 5	43	< 0.5	< 0.8	3800	31	5	44	13000	13	1900	170	< 1.5	57	< 1	47	31	28
		10-20 cm (soil)	19822	13000	< 0.8	< 5	45	< 0.5	< 0.8	4500	32	5	42	14000	14	2300	180	< 1.5	58	< 1	48	32	31
5030639* Play Structure	B	0-5 cm (sand)	19824	7500	< 0.8	< 5	28	< 0.5	< 0.8	3000	39	6	25	17000	5	4400	240	< 1.5	23	< 1	25	42	28
			19825	7000	< 0.8	< 5	29	< 0.5	< 0.8	2600	40	7	28	18000	5	4400	250	< 1.5	25	< 1	20	43	29
5030640* Play Structure	C	0-5 cm (sand)	19826	7500	< 0.8	< 5	25	< 0.5	< 0.8	2800	34	6	27	17000	4	4300	230	< 1.5	24	< 1	25	39	25
			19827	7800	< 0.8	< 5	29	< 0.5	< 0.8	2800	43	7	34	20000	4	4700	250	< 1.5	27	< 1	21	51	29
5030641* Play Structure	D	0-5 cm (sand)	19828	6600	< 0.8	< 5	23	< 0.5	< 0.8	2700	34	6	22	15000	4	3700	230	< 1.5	21	< 1	23	37	23

Table F (results in bold)	NG	1.0	17	210	1.2	1.0	NG	71	21	85	NG	120	NG	NG	2.5	43	1.9	NG	91	160
Table A (results in bold and underlined)	NG	13	20	750	1.2	12.0	NG	750	40	225	NG	200	NG	NG	40	150	10	NG	200	600
< - less than the Method Detection Limit. NG - no guideline. All results are in µg/g dry wt.																				

Table C4.1: Outer Community Parks

Station	Map ID	Soil Depth	Sample No.	Al	Sb	As	Ba	Be	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Mo	Ni	Se	Sr	V	Zn
			19829	6900	< 0.8	< 5	24	< 0.5	< 0.8	2700	33	6	25	16000	5	3800	220	< 1.5	22	< 1	24	39	26
5030642	E	0-5 cm (soil)	19836	6400	< 0.8	< 5	31	< 0.5	< 0.8	9000	21	4	18	9000	4	4200	140	< 1.5	22	< 1	53	23	17
			19837	6900	< 0.8	< 5	34	< 0.5	< 0.8	7400	24	4	19	11000	4	3800	160	< 1.5	22	1	58	26	18
5030643	F	0-5 cm (soil)	19830	9700	< 0.8	< 5	30	< 0.5	< 0.8	4400	27	4	45	12000	14	2200	150	< 1.5	52	1	38	28	24
			19831	9600	< 0.8	< 5	30	< 0.5	< 0.8	3900	25	4	43	11000	14	2100	140	< 1.5	52	1	35	27	23
		5-10 cm (soil)	19832	9700	< 0.8	< 5	27	< 0.5	< 0.8	2600	23	4	35	11000	8	1600	140	< 1.5	37	1	28	27	19
			19833	9500	< 0.8	< 5	26	< 0.5	< 0.8	2400	22	3	30	11000	8	1500	120	< 1.5	33	< 1	24	25	18
		10-20 cm (soil)	19834	8800	< 0.8	< 5	28	< 0.5	< 0.8	2300	22	3	47	10000	10	1400	130	< 1.5	46	1	26	26	15
			19835	8400	< 0.8	< 5	21	< 0.5	< 0.8	2000	19	3	32	8300	8	1400	110	< 1.5	32	1	21	25	13
Daniel Park, 3199 Daniel Ave.																							
5030649	A	0-5 cm (soil)	19756	9400	< 0.8	< 5	25	< 0.5	< 0.8	2700	24	4	31	12000	10	2000	160	< 1.5	41	< 1	28	24	19
			19757	9400	< 0.8	< 5	28	< 0.5	< 0.8	3000	26	5	30	12000	10	2000	160	< 1.5	43	< 1	34	26	20
		5-10 cm (soil)	19758	11000	< 0.8	< 5	38	< 0.5	< 0.8	4100	31	5	30	14000	12	2300	220	< 1.5	40	< 1	42	29	22
			19759	10000	< 0.8	< 5	31	< 0.5	< 0.8	3900	27	5	28	13000	10	2300	180	< 1.5	37	< 1	39	28	22
		10-20 cm (soil)	19760	10000	< 0.8	< 5	33	< 0.5	< 0.8	3900	26	5	35	13000	13	2100	200	< 1.5	47	< 1	39	27	24
			19761	9700	< 0.8	< 5	32	< 0.5	< 0.8	3400	30	6	32	13000	12	2300	210	< 1.5	44	< 1	36	29	24
5030650	B	0-15 cm (sand)	19762	12000	< 0.8	< 5	54	< 0.5	< 0.8	4500	59	10	58	27000	7	5700	340	< 1.5	34	< 1	42	60	34
			19763	11000	< 0.8	< 5	48	< 0.5	< 0.8	4100	53	10	53	26000	7	5400	320	< 1.5	34	< 1	38	56	32
5030651	C	0-15 cm (sand)	19764	13000	< 0.8	< 5	54	< 0.5	< 0.8	5000	48	8	63	22000	7	5500	320	< 1.5	29	< 1	41	29	41
			19765	11000	< 0.8	< 5	42	< 0.5	< 0.8	4900	45	7	45	20000	6	4600	290	< 1.5	25	< 1	37	27	35
5030652	D	0-15 cm (sand)	19766	11000	< 0.8	< 5	44	< 0.5	< 0.8	4800	43	7	43	19000	9	3800	300	< 1.5	32	< 1	39	23	30
			19767	10000	< 0.8	< 5	40	< 0.5	< 0.8	4100	39	7	44	18000	8	4200	290	< 1.5	33	< 1	28	20	30
Flake Playground, Percy Ave.																							
5030644	A	0-5 cm (soil)	19844	9000	< 0.8	< 5	29	< 0.5	< 0.8	2300	24	4	36	11000	10	1800	130	< 1.5	45	1	23	25	24
			19845	8800	< 0.8	< 5	30	< 0.5	< 0.8	2300	24	4	35	11000	9	1800	140	< 1.5	43	1	24	25	23
		5-10 cm (soil)	19846	8200	< 0.8	< 5	28	< 0.5	< 0.8	2400	23	4	30	11000	9	1900	130	< 1.5	38	1	21	24	25
			19847	8900	< 0.8	< 5	27	< 0.5	< 0.8	2800	25	5	31	12000	9	1900	140	< 1.5	41	< 1	31	26	12
		10-20 cm (soil)	19848	8300	< 0.8	< 5	24	< 0.5	< 0.8	2900	24	5	24	12000	7	2000	150	< 1.5	36	< 1	33	26	9.7
			19849	8400	< 0.8	< 5	24	< 0.5	< 0.8	3100	24	4	29	11000	8	1800	150	< 1.5	38	< 1	34	26	9.2
5030645	B	0-15 cm (sand)	19850	7800	< 0.8	< 5	43	< 0.5	< 0.8	3200	46	11	38	24000	5	4500	320	< 1.5	29	< 1	27	51	25
			19851	8000	< 0.8	< 5	31	< 0.5	< 0.8	3000	43	8	37	21000	4	4600	260	< 1.5	27	< 1	27	47	24

Table F (results in bold)	NG	1.0	17	210	1.2	1.0	NG	71	21	85	NG	120	NG	NG	2.5	43	1.9	NG	91	160
Table A (results in bold and underlined)	NG	13	20	750	1.2	12.0	NG	750	40	225	NG	200	NG	NG	40	150	10	NG	200	600
< - less than the Method Detection Limit. NG - no guideline. All results are in µg/g dry wt.																				

Table C4.1: Outer Community Parks																								
Station	Map ID	Soil Depth	Sample No.	Al	Sb	As	Ba	Be	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Mo	Ni	Se	Sr	V	Zn	
5030646 Play Structure	C	0-15 cm (sand)	19852	10000	< 0.8	< 5	44	< 0.5	< 0.8	3300	51	10	52	23000	8	4700	300	< 1.5	32	< 1	31	54	28	
			19853	9400	< 0.8	< 5	40	< 0.5	< 0.8	2900	46	10	51	23000	6	4700	290	< 1.5	32	< 1	26	52	27	
5030647 Play Structure	D	0-15 cm (sand)	19854	8900	< 0.8	< 5	37	< 0.5	< 0.8	2800	46	9	44	22000	6	4500	280	< 1.5	30	< 1	27	48	22	
			19855	8300	< 0.8	< 5	33	< 0.5	< 0.8	2600	45	9	40	23000	4	4400	250	< 1.5	29	< 1	23	48	20	
McMillan Park,McMillan Dr.																								
5030656 Green Space	A	0-5 cm (soil)	19778	11000	< 0.8	< 5	30	< 0.5	< 0.8	3500	27	5	40	13000	10	2200	170	< 1.5	47	< 1	38	29	24	
			19779	11000	< 0.8	< 5	28	< 0.5	< 0.8	3500	27	5	36	14000	10	2200	170	< 1.5	44	< 1	40	28	22	
		5-10 cm (soil)	19780	10000	< 0.8	< 5	31	< 0.5	< 0.8	3900	26	5	31	13000	9	2100	160	< 1.5	41	< 1	41	28	19	
			19781	12000	< 0.8	< 5	34	< 0.5	< 0.8	3700	28	5	38	14000	10	2200	180	< 1.5	46	< 1	43	30	22	
		10-20 cm (soil)	19782	12000	< 0.8	< 5	39	< 0.5	< 0.8	4200	32	5	25	14000	8	2300	180	< 1.5	41	< 1	46	30	20	
			19783	12000	< 0.8	< 5	40	< 0.5	< 0.8	4200	31	6	39	14000	11	2300	200	< 1.5	52	< 1	46	32	23	
5030657 Play Structure	B	0-15 cm (sand)	19784	13000	< 0.8	< 5	56	< 0.5	< 0.8	4600	58	11	65	26000	7	6100	370	< 1.5	36	< 1	45	58	48	
19785			9600	< 0.8	< 5	40	< 0.5	< 0.8	3300	44	10	53	22000	6	5400	290	< 1.5	33	< 1	30	47	37		
5030658 Play Structure	C	0-15 cm (sand)	19786	8500	< 0.8	< 5	31	< 0.5	< 0.8	3000	41	9	35	21000	5	4200	250	< 1.5	28	< 1	28	49	28	
			19787	7900	< 0.8	< 5	27	< 0.5	< 0.8	2700	36	8	30	18000	5	4300	230	< 1.5	28	< 1	24	39	26	
McCrea Hights Playground (Hs side Playground),1218 Hs dale Ave.																								
5030648 Green Space	A	0-5 cm (soil)	19838	12000	< 0.8	< 5	42	< 0.5	< 0.8	4600	31	4	43	13000	13	2300	200	< 1.5	49	1	45	31	31	
			19839	12000	< 0.8	< 5	42	< 0.5	< 0.8	4300	31	4	39	13000	11	2200	200	< 1.5	46	1	44	30	29	
		5-10 cm (soil)	19840	9700	< 0.8	< 5	31	< 0.5	< 0.8	3200	25	4	25	12000	8	1900	160	< 1.5	34	1	34	27	23	
			19841	8900	< 0.8	< 5	31	< 0.5	< 0.8	2800	25	4	26	12000	8	2000	180	< 1.5	32	1	29	27	23	
		10-20 cm (soil)	19842	7700	< 0.8	< 5	26	< 0.5	< 0.8	2700	25	5	23	11000	8	2100	170	< 1.5	37	< 1	26	26	22	
			19843	6100	< 0.8	< 5	22	< 0.5	< 0.8	2100	21	5	21	9200	10	1900	140	< 1.5	34	< 1	17	22	24	
Pinecrest Park,Swanson Cr.																								
5030659 Green Space	A	0-5 cm (soil)	19788	8300	< 0.8	< 5	26	< 0.5	< 0.8	4000	25	5	29	12000	9	2500	170	< 1.5	39	< 1	34	27	27	
			19789	8600	< 0.8	< 5	27	< 0.5	< 0.8	4100	26	5	30	12000	9	2500	170	< 1.5	36	< 1	37	27	26	
		5-10 cm (soil)	19790	8000	< 0.8	< 5	25	< 0.5	< 0.8	4100	28	5	24	12000	11	2500	180	1.7	32	< 1	37	27	23	
			19791	7400	< 0.8	< 5	23	< 0.5	< 0.8	3900	24	5	19	11000	10	2400	180	< 1.5	27	< 1	35	25	22	
		10-20 cm (soil)	19792	7900	< 0.8	< 5	23	< 0.5	< 0.8	4500	26	4	14	12000	8	2400	180	< 1.5	21	< 1	40	27	18	
			19793	7300	< 0.8	< 5	21	< 0.5	< 0.8	3900	25	4	14	11000	7	2300	180	< 1.5	23	< 1	36	26	18	
5030660 Play Structure	B	0-15 cm (sand)	19794	9300	< 0.8	< 5	40	< 0.5	< 0.8	3000	43	9	54	21000	6	5200	270	< 1.5	32	< 1	25	44	37	
			19795	10000	< 0.8	< 5	44	< 0.5	< 0.8	3400	44	9	53	21000	7	5200	290	< 1.5	31	< 1	32	48	38	
5030661 Play Structure	C	0-15 cm (sand)	19796	10000	< 0.8	< 5	41	< 0.5	< 0.8	3300	46	9	55	22000	6	5400	290	< 1.5	32	< 1	30	48	35	
			19797	11000	< 0.8	< 5	48	< 0.5	< 0.8	4100	52	10	51	23000	7	5200	320	< 1.5	34	< 1	42	54	34	

Table F (results in bold)	NG	1.0	17	210	1.2	1.0	NG	71	21	85	NG	120	NG	NG	2.5	43	1.9	NG	91	160
Table A (results in bold and underlined)	NG	13	20	750	1.2	12.0	NG	750	40	225	NG	200	NG	NG	40	150	10	NG	200	600
< - less than the Method Detection Limit. NG - no guideline. All results are in µg/g dry wt.																				

Table C4.1: Outer Community Parks

Station	Map ID	Soil Depth	Sample No.	Al	Sb	As	Ba	Be	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Mo	Ni	Se	Sr	V	Zn
Sunnyside Playground,3273 Maple St.																							
5030653 Baseball Outfield	A	0-5 cm (soil)	19768	8000	< 0.8	6	27	< 0.5	< 0.8	4000	25	6	45	13000	21	2000	170	< 1.5	61	< 1	27	28	32
			19769	9900	< 0.8	< 5	25	< 0.5	< 0.8	2800	23	4	19	12000	7	1700	120	< 1.5	32	< 1	32	26	17
		5-10 cm (soil)	19770	10000	< 0.8	< 5	29	< 0.5	< 0.8	3100	26	4	25	13000	7	1900	170	< 1.5	31	< 1	36	29	19
			19771	10000	< 0.8	< 5	29	< 0.5	< 0.8	2800	24	4	23	12000	7	1900	150	< 1.5	33	< 1	32	27	18
		10-15 cm (soil)	19772	11000	< 0.8	6	33	< 0.5	< 0.8	2900	28	5	51	14000	11	2000	240	< 1.5	58	< 1	35	32	24
			19773	12000	< 0.8	6	36	< 0.5	< 0.8	3000	28	6	46	15000	11	2000	250	< 1.5	53	< 1	37	34	24
5030654 Baseball Infield	B	0-5 cm (soil)	19774	7900	< 0.8	< 5	35	< 0.5	< 0.8	6600	27	7	35	13000	7	4200	210	< 1.5	37	< 1	44	29	24
			19775	8000	< 0.8	< 5	33	< 0.5	< 0.8	5800	26	7	36	14000	7	3200	200	< 1.5	38	< 1	41	30	25
5030655 Play Structure	C	0-5 cm (sand)	19776	10000	< 0.8	< 5	42	< 0.5	< 0.8	3100	45	10	57	22000	7	5200	290	< 1.5	35	< 1	28	49	38
			19777	10000	< 0.8	< 5	62	< 0.5	< 0.8	2200	44	12	70	21000	8	5700	350	< 1.5	40	< 1	15	44	44
Community of Val Therese																							
Mederic Park,Mederic St.																							
5030902 Green Space	A	0-5 cm (soil)	18300	10000	< 0.8	< 5	28	< 0.5	< 0.8	3200	26	4	28	12000	8	1900	160	< 1.5	36	< 1	36	27	22
			18301	9800	< 0.8	< 5	27	< 0.5	< 0.8	3100	27	4	24	12000	7	1900	160	< 1.5	32	< 1	35	26	22
		5-10 cm (soil)	18302	9200	< 0.8	< 5	29	< 0.5	< 0.8	3300	27	4	25	12000	8	2000	180	< 1.5	32	< 1	36	27	22
			18303	8900	< 0.8	< 5	30	< 0.5	< 0.8	3400	25	4	21	12000	7	2100	200	< 1.5	29	< 1	34	26	24
		10-20 cm (soil)	18304	9400	< 0.8	< 5	37	< 0.5	< 0.8	3200	27	4	47	12000	12	1800	190	< 1.5	56	< 1	38	28	24
			18305	7800	< 0.8	< 5	29	< 0.5	< 0.8	3100	25	4	29	11000	11	2000	190	< 1.5	39	< 1	28	24	24
Bse Court Park,Bse Court																							
5030903 Play Structure	A	0-5 cm (sand)	18268	6400	< 0.8	< 5	17	< 0.5	< 0.8	2000	30	6	18	13000	4	2800	170	< 1.5	21	< 1	22	32	17
			18269	7600	0.9	< 5	22	< 0.5	< 0.8	2400	34	7	18	14000	4	2900	190	< 1.5	22	< 1	26	34	20
5030904 Play Structure	B	0-5 cm (sand)	18270	7100	< 0.8	< 5	23	< 0.5	< 0.8	2400	41	8	24	16000	5	3100	210	< 1.5	27	< 1	25	40	24
			18271	6900	< 0.8	< 5	20	< 0.5	< 0.8	2300	31	8	20	15000	4	3100	190	< 1.5	25	< 1	23	36	22
5030905 Green Space	C	0-5 cm (soil)	18272	11000	< 0.8	< 5	37	< 0.5	< 0.8	4300	31	6	34	13000	10	2400	190	< 1.5	50	< 1	45	29	24
			18273	9700	< 0.8	< 5	30	< 0.5	< 0.8	3400	26	5	33	12000	10	2100	160	< 1.5	46	< 1	38	27	22
		5-10 cm (soil)	18274	10000	< 0.8	< 5	35	< 0.5	< 0.8	4100	30	6	29	13000	10	2500	190	< 1.5	41	< 1	44	29	22
			18275	9700	< 0.8	< 5	33	< 0.5	< 0.8	4000	29	6	35	13000	11	2500	190	< 1.5	53	< 1	39	28	24
		10-20 cm (soil)	18276	8500	< 0.8	< 5	32	< 0.5	< 0.8	3500	28	5	32	11000	10	2500	170	< 1.5	47	< 1	29	26	22
			18277	9100	< 0.8	< 5	35	< 0.5	< 0.8	3500	29	6	24	12000	9	2600	180	< 1.5	43	< 1	31	27	23
Valley Acres Playground,East St.																							
5030906 Play Structure	A	0-5 cm (sand)	18278	7900	< 0.8	< 5	36	< 0.5	< 0.8	2300	39	9	52	18000	6	4400	260	< 1.5	31	< 1	17	42	30
			18279	9100	< 0.8	< 5	49	< 0.5	< 0.8	2700	44	11	73	19000	8	5200	320	< 1.5	38	< 1	21	47	37
5030907 Play Structure	B	0-5 cm (sand)	18280	8000	< 0.8	< 5	33	< 0.5	< 0.8	2800	40	9	45	22000	6	4300	270	< 1.5	31	< 1	23	51	31
			18281	9700	< 0.8	< 5	40	< 0.5	< 0.8	3200	44	10	66	21000	7	5300	290	< 1.5	34	< 1	26	46	33

Table F (results in bold)	NG	1.0	17	210	1.2	1.0	NG	71	21	85	NG	120	NG	NG	2.5	43	1.9	NG	91	160
Table A (results in bold and underlined)	NG	13	20	750	1.2	12.0	NG	750	40	225	NG	200	NG	NG	40	150	10	NG	200	600
< - less than the Method Detection Limit.																				
NG - no guideline.																				
All results are in µg/g dry wt.																				

Table C4.1: Outer Community Parks																								
Station	Map ID	Soil Depth	Sample No.	Al	Sb	As	Ba	Be	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Mo	Ni	Se	Sr	V	Zn	
5030908 Green Space	C	0-5 cm (soil)	18282	11000	< 0.8	5	29	< 0.5	< 0.8	3300	30	6	32	13000	9	1800	140	< 1.5	46	< 1	38	27	18	
			18283	10000	< 0.8	< 5	28	< 0.5	< 0.8	2800	25	4	32	12000	9	1700	120	< 1.5	43	< 1	33	26	18	
		5-10 cm (soil)	18284	12000	< 0.8	< 5	33	< 0.5	< 0.8	3000	26	4	34	13000	11	1700	150	< 1.5	48	< 1	38	28	18	
			18285	11000	< 0.8	< 5	34	< 0.5	< 0.8	3300	26	5	36	12000	11	1800	150	< 1.5	52	< 1	38	28	20	
		10-20 cm (soil)	18286	9700	< 0.8	7	36	< 0.5	< 0.8	2300	24	4	39	12000	16	1500	140	< 1.5	61	< 1	31	27	20	
			18287	9700	< 0.8	7	38	< 0.5	< 0.8	2500	26	4	41	12000	14	1600	140	< 1.5	59	1	30	28	23	
Community of Wnapitae																								
Glenbower Crescent Ballfield, Glenbower Hwy 17																								
5030538 Baseball Infield	A	0-5 cm (soil)	20397	8000	< 0.8	< 5	32	< 0.5	< 0.8	4900	28	6	14	13000	4	3400	190	< 1.5	21	< 1	36	27	20	
			20398	7200	< 0.8	< 5	28	< 0.5	< 0.8	4200	27	6	14	13000	4	3300	180	< 1.5	22	< 1	27	26	19	
5030539 Baseball Outfield	B	0-5 cm (soil)	20399	13000	< 0.8	< 5	51	< 0.5	< 0.8	4900	41	9	36	18000	14	4200	270	< 1.5	54	< 1	39	35	33	
			20400	12000	< 0.8	< 5	48	< 0.5	< 0.8	4600	39	10	31	18000	9	4000	270	< 1.5	52	< 1	38	34	32	
		5-10 cm (soil)	20401	13000	< 0.8	< 5	52	< 0.5	< 0.8	3400	36	9	29	18000	6	3900	230	< 1.5	50	< 1	32	33	28	
			20402	11000	< 0.8	< 5	49	< 0.5	< 0.8	3700	36	8	24	16000	6	3900	210	< 1.5	39	< 1	33	33	26	
		10-20 cm (soil)	20403	11000	< 0.8	< 5	46	< 0.5	< 0.8	3500	35	8	36	18000	6	3900	200	< 1.5	42	< 1	32	33	26	
			20404	11000	< 0.8	< 5	43	< 0.5	< 0.8	3400	35	9	33	18000	12	3900	210	< 1.5	48	< 1	32	32	26	
Mountainview Playground, Mountainview St.																								
5030540 Play Structure	A	0-5 cm (sand)	20405	6200	< 0.8	< 5	30	< 0.5	< 0.8	2600	29	10	35	16000	6	3500	190	< 1.5	41	< 1	22	30	33	
			20406	5900	< 0.8	< 5	28	< 0.5	< 0.8	2500	25	11	38	15000	5	3400	180	< 1.5	36	< 1	21	26	32	
5030541 Play Structure	B	0-5 cm (sand)	20407	6100	< 0.8	< 5	28	< 0.5	< 0.8	2600	27	9	32	15000	7	3500	180	< 1.5	38	< 1	21	27	32	
			20408	6500	< 0.8	< 5	30	< 0.5	< 0.8	3000	28	9	41	17000	6	3600	190	< 1.5	37	< 1	26	31	52	
5030542 Green Space	C	0-5 cm (soil)	20409	7200	< 0.8	< 5	32	< 0.5	< 0.8	6000	28	11	23	15000	7	3500	180	< 1.5	43	< 1	31	30	23	
			20410	9200	< 0.8	< 5	46	< 0.5	< 0.8	6900	32	9	26	16000	5	3700	200	< 1.5	35	< 1	35	31	27	
		5-10 cm (soil)	20411	11000	< 0.8	< 5	58	< 0.5	< 0.8	9000	35	10	40	18000	7	4100	220	< 1.5	50	< 1	44	34	31	
			20412	12000	< 0.8	< 5	55	< 0.5	< 0.8	15000	39	12	52	19000	9	5200	220	< 1.5	59	< 1	48	34	36	
		10-20 cm (soil)	20413	13000	< 0.8	< 5	53	< 0.5	< 0.8	18000	37	10	34	19000	7	5700	210	< 1.5	48	< 1	54	34	30	
			20414	14000	< 0.8	< 5	56	< 0.5	< 0.8	17000	38	11	41	21000	7	5900	230	< 1.5	51	< 1	52	35	32	
Hwy St. Playground, Hwy St.																								
5030948 Play Structure	A	0-5 cm (sand)	20387	6000	< 0.8	< 5	28	< 0.5	< 0.8	2500	28	8	20	17000	4	3500	190	< 1.5	28	< 1	21	36	28	
			20388	5800	< 0.8	< 5	27	< 0.5	< 0.8	2500	28	8	18	16000	3	3400	180	< 1.5	27	< 1	21	37	25	
Wnapitae Community Club, 161 Glenbower Cresc.																								
5030537 Play Structure	A	0-5 cm (sand)	20395	12000	< 0.8	< 5	67	< 0.5	< 0.8	5800	54	5	29	20000	3	4200	280	< 1.5	17	2	47	45	33	
			20396	10000	< 0.8	< 5	58	< 0.5	< 0.8	5300	44	6	24	17000	5	3700	260	< 1.5	21	2	42	42	27	

Table F (results in bold)	NG	1.0	17	210	1.2	1.0	NG	71	21	85	NG	120	NG	NG	2.5	43	1.9	NG	91	160
Table A (results in bold and underlined)	NG	13	20	750	1.2	12.0	NG	750	40	225	NG	200	NG	NG	40	150	10	NG	200	600
< - less than the Method Detection Limit. NG - no guideline. All results are in µg/g dry wt.																				

Table C4.1: Outer Community Parks																								
Station	Map ID	Soil Depth	Sample No.	Al	Sb	As	Ba	Be	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Mo	Ni	Se	Sr	V	Zn	
Whitnash Lions Park, Glenbowe City 17																								
5030536 Green Space	A	0-5 cm (soil)	20389	11000	< 0.8	< 5	38	< 0.5	< 0.8	3800	38	9	38	19000	12	4300	240	< 1.5	47	< 1	28	33	33	
			20390	12000	< 0.8	< 5	44	< 0.5	< 0.8	4400	40	9	44	19000	14	4500	240	< 1.5	49	< 1	32	33	35	
		5-10 cm (soil)	20391	13000	< 0.8	< 5	50	< 0.5	< 0.8	4400	40	9	34	20000	8	4600	220	< 1.5	48	1	34	36	28	
			20392	19000	< 0.8	< 5	120	< 0.5	< 0.8	5800	58	8	41	22000	10	5400	280	< 1.5	38	2	54	51	37	
		10-20 cm (soil)	20393	20000	< 0.8	< 5	120	< 0.5	< 0.8	6400	54	8	36	24000	9	5500	250	< 1.5	51	2	52	48	36	
			20394	19000	< 0.8	< 5	130	< 0.5	< 0.8	6400	57	8	39	21000	8	5300	310	< 1.5	43	2	56	49	35	
Community of Whitefish																								
Camp Mnisakwa, 295 Regional R. 4																								
5030781 Green Space	A	0-5 cm (soil)	21181	20000	< 0.8	< 5	120	< 0.5	< 0.8	5500	49	11	42	24000	10	6400	380	< 1.5	50	< 1	51	51	55	
			21182	19000	< 0.8	< 5	110	< 0.5	< 0.8	5300	48	12	39	24000	10	6500	400	< 1.5	49	1	49	50	50	
		5-10 cm (soil)	21183	22000	< 0.8	< 5	130	< 0.5	< 0.8	4900	55	13	36	29000	10	7700	470	< 1.5	47	< 1	51	58	61	
			21184	21000	< 0.8	< 5	120	< 0.5	< 0.8	4900	56	12	42	27000	15	7500	420	< 1.5	45	< 1	51	57	59	
		10-20 cm (soil)	21185	21000	< 0.8	< 5	130	< 0.5	< 0.8	5000	56	12	34	29000	10	7900	460	< 1.5	43	< 1	52	59	60	
			21186	19000	< 0.8	< 5	110	< 0.5	< 0.8	4600	53	12	31	28000	9	7300	420	< 1.5	43	< 1	49	55	59	
5030782 Beach	B	0-5 cm (sand)	21187	5200	< 0.8	< 5	19	< 0.5	< 0.8	2900	22	8	29	14000	5	3400	220	< 1.5	36	< 1	22	30	21	
			21188	5300	< 0.8	< 5	16	< 0.5	< 0.8	2500	23	9	32	14000	5	3400	190	< 1.5	41	< 1	17	30	21	
Centennial Park, 400 Graham R.																								
5030909 Play Structure	A	0-5 cm (sand)	18138	10000	< 0.8	< 5	41	< 0.5	< 0.8	4000	34	8	26	19000	5	5000	230	< 1.5	27	< 1	35	36	32	
			18139	10000	< 0.8	< 5	38	< 0.5	< 0.8	3800	34	9	23	19000	4	4300	220	< 1.5	28	< 1	34	34	32	
5030910 Green Space	B	0-5 cm (soil)	18140	12000	< 0.8	11	55	< 0.5	< 0.8	6300	36	12	56	19000	32	3800	570	< 1.5	75	< 1	44	36	66	
			18141	13000	< 0.8	9	59	< 0.5	< 0.8	6700	40	11	52	19000	27	4000	470	< 1.5	76	< 1	48	40	58	
		5-10 cm (soil)	18142	11000	< 0.8	23	53	< 0.5	< 0.8	5100	36	12	71	19000	48	3700	500	< 1.5	74	< 1	40	36	64	
			18143	12000	< 0.8	22	62	< 0.5	< 0.8	6100	39	12	66	20000	49	4100	590	1.5	69	< 1	45	40	66	
		10-20 cm (soil)	18144	11000	4	44	58	< 0.5	< 0.8	4000	35	10	77	21000	74	3000	510	< 1.5	65	< 1	41	37	62	
			18145	13000	1	28	70	< 0.5	< 0.8	5400	40	12	88	21000	66	3700	600	< 1.5	68	< 1	47	41	80	
5030911 Green Space	C	0-5 cm (soil)	18146	13000	< 0.8	14	68	< 0.5	< 0.8	6900	38	12	52	21000	34	5400	620	< 1.5	58	< 1	44	40	76	
			18147	12000	< 0.8	14	68	< 0.5	< 0.8	6900	38	12	52	20000	36	5400	650	< 1.5	56	< 1	44	41	73	
		5-10 cm (soil)	18148	11000	< 0.8	8	58	< 0.5	< 0.8	4200	35	9	39	19000	31	4000	410	< 1.5	34	< 1	40	37	47	
			18149	10000	< 0.8	< 5	48	< 0.5	< 0.8	3900	31	8	29	16000	11	3700	320	< 1.5	29	< 1	37	32	35	
		10-20 cm (soil)	18150	10000	< 0.8	< 5	52	< 0.5	< 0.8	3600	32	7	25	15000	6	3600	240	< 1.5	26	< 1	39	33	28	
			18151	9600	< 0.8	< 5	45	< 0.5	< 0.8	3600	30	7	24	15000	6	3600	210	< 1.5	24	< 1	35	31	26	

Table F (results in bold)	NG	1.0	17	210	1.2	1.0	NG	71	21	85	NG	120	NG	NG	2.5	43	1.9	NG	91	160
Table A (results in bold and underlined)	NG	13	20	750	1.2	12.0	NG	750	40	225	NG	200	NG	NG	40	150	10	NG	200	600
< - less than the Method Detection Limit. NG - no guideline. All results are in µg/g dry wt.																				

Table C4.1: Outer Community Parks

Station	Map ID	Soil Depth	Sample No.	Al	Sb	As	Ba	Be	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Mo	Ni	Se	Sr	V	Zn
Den Lou Playground,26 Den Lou R.																							
5030779 Play Structure	A	0-5 cm (sand)	21173	9700	< 0.8	< 5	40	< 0.5	< 0.8	5600	23	7	34	20000	8	3900	300	< 1.5	19	< 1	43	46	32
			21174	8600	< 0.8	< 5	35	< 0.5	< 0.8	4700	24	7	39	20000	8	3900	280	< 1.5	20	< 1	35	43	32
5030780 Green Space	B	0-5 cm (soil)	21175	16000	< 0.8	< 5	84	< 0.5	< 0.8	4300	38	13	50	24000	15	4600	500	< 1.5	57	< 1	42	46	65
			21176	18000	< 0.8	< 5	100	< 0.5	< 0.8	5100	41	16	72	26000	18	4800	520	< 1.5	76	< 1	48	50	68
		5-10 cm (soil)	21177	13000	< 0.8	< 5	73	< 0.5	< 0.8	3200	30	11	33	19000	10	3400	360	< 1.5	44	< 1	34	36	50
			21178	17000	< 0.8	< 5	87	< 0.5	< 0.8	4700	39	14	49	24000	13	4700	470	< 1.5	59	< 1	44	46	66
		10-20 cm (soil)	21179	17000	< 0.8	< 5	84	< 0.5	< 0.8	3900	39	10	24	24000	9	4700	430	< 1.5	37	< 1	42	45	61
			21180	17000	< 0.8	< 5	93	< 0.5	< 0.8	4000	40	12	28	23000	10	4700	430	< 1.5	42	< 1	45	46	67
Murray Sports Complex,10 Murray St.																							
5030912 Baseball Infield	A	0-5 cm (soil)	18152	10000	< 0.8	< 5	55	< 0.5	< 0.8	9900	32	6	16	13000	5	6100	230	< 1.5	22	< 1	93	30	22
			18153	9100	< 0.8	< 5	49	< 0.5	< 0.8	9500	32	6	16	14000	5	5400	240	< 1.5	23	< 1	81	32	22
5030913 Baseball Outfield	B	0-5 cm (soil)	18154	27000	< 0.8	< 5	150	< 0.5	< 0.8	6000	67	11	35	25000	14	7500	420	< 1.5	52	< 1	54	55	57
			18155	26000	< 0.8	< 5	140	< 0.5	< 0.8	6000	64	12	37	26000	14	7100	420	< 1.5	50	< 1	53	55	56
		5-10 cm (soil)	18156	30000	< 0.8	< 5	160	0.5	< 0.8	5200	76	12	34	29000	13	7800	480	< 1.5	48	< 1	56	62	65
			18157	30000	< 0.8	< 5	160	0.5	< 0.8	5100	77	13	34	30000	14	8200	490	< 1.5	53	< 1	56	62	66
		10-20 cm (soil)	18158	27000	< 0.8	< 5	150	0.5	< 0.8	4400	78	12	33	30000	11	8500	490	< 1.5	47	< 1	52	62	62
			18159	23000	< 0.8	< 5	120	< 0.5	< 0.8	4200	70	12	31	27000	11	7400	460	< 1.5	47	< 1	48	56	62
Whitefish Playground,25 Paul St.																							
5030783 Play Structure	A	0-5 cm (sand)	21189	5800	< 0.8	< 5	19	< 0.5	< 0.8	3000	26	7	18	14000	4	3600	180	< 1.5	21	< 1	23	28	21
			21190	6000	< 0.8	< 5	21	< 0.5	< 0.8	3100	26	8	19	14000	4	3600	190	< 1.5	25	< 1	24	31	20
5030784 Green Space	B	0-5 cm (soil)	21191	11000	< 0.8	< 5	48	< 0.5	< 0.8	5400	31	7	30	15000	11	2900	280	< 1.5	50	< 1	41	31	31
			21192	12000	< 0.8	< 5	55	< 0.5	< 0.8	7000	33	8	34	16000	9	3400	360	< 1.5	39	< 1	42	32	36
		5-10 cm (soil)	21193	14000	< 0.8	< 5	60	< 0.5	< 0.8	6500	40	8	23	17000	12	3700	270	< 1.5	51	< 1	47	38	33
			21194	14000	1.4	< 5	59	< 0.5	< 0.8	6000	42	8	31	18000	11	3900	280	< 1.5	48	< 1	47	38	37
		10-20 cm (soil)	21195	11000	< 0.8	< 5	51	< 0.5	< 0.8	5400	27	7	27	17000	9	3200	250	< 1.5	24	< 1	39	37	29
			21196	8600	< 0.8	6	39	< 0.5	< 0.8	3900	24	8	32	16000	8	3100	250	< 1.5	21	< 1	26	35	36

Table F (results in bold)	NG	1.0	17	210	1.2	1.0	NG	71	21	85	NG	120	NG	NG	2.5	43	1.9	NG	91	160
Table A (results in bold and underlined)	NG	13	20	750	1.2	12.0	NG	750	40	225	NG	200	NG	NG	40	150	10	NG	200	600
< - less than the Method Detection Limit. NG - no guideline. All results are in µg/g dry wt.																				

Table C4.2: Inner Community Parks

Station	Map ID	Soil Depth	Sample No.	Al	Sb	As	Ba	Be	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Mo	Ni	Se	Sr	V	Zn
Community of Azilda																							
Birchview Playground,Birch &Donald St.,Azilda																							
5030740 Green Space	A	0-5 cm (soil)	21389	16000	< 0.8	12	72	< 0.5	< 0.8	8000	57	20	160	22000	28	6100	440	< 1.5	304	1	47	42	61
			21390	16000	< 0.8	8	67	< 0.5	< 0.8	7500	54	15	130	22000	22	6000	430	< 1.5	208	< 1	48	42	55
		5-10 cm (soil)	21391	15000	< 0.8	7	61	< 0.5	< 0.8	7100	52	13	99	21000	17	5700	400	< 1.5	190	< 1	43	39	49
			21392	14000	< 0.8	8	60	< 0.5	< 0.8	5900	49	10	120	20000	13	5400	390	< 1.5	131	< 1	34	37	56
		10-20 cm (soil)	21393	15000	< 0.8	< 5	63	< 0.5	< 0.8	6500	55	9	51	21000	9	5900	390	< 1.5	81	< 1	44	42	43
			21394	16000	< 0.8	6	69	< 0.5	< 0.8	7300	55	11	70	22000	12	5900	410	< 1.5	118	< 1	47	44	45
5030741 Play Structure	B	0-5 cm (sand)	21395	5800	< 0.8	6	19	< 0.5	< 0.8	3200	26	8	23	15000	6	4200	200	< 1.5	26	< 1	24	31	23
			21396	5900	< 0.8	< 5	20	< 0.5	< 0.8	3400	28	9	23	16000	6	4200	200	< 1.5	24	< 1	26	33	23
Centennial Park (Mteewater Lake Park),Mteewater Lake,Azilda																							
5030755 Green Space	A	0-5 cm (soil)	21535	6900	< 0.8	< 5	32	< 0.5	< 0.8	10000	28	7	52	11000	11	4500	200	< 1.5	78	< 1	26	23	29
			21536	11000	< 0.8	15	43	< 0.5	< 0.8	12000	33	7	51	14000	10	5100	260	< 1.5	73	< 1	48	31	28
		5-10 cm (soil)	21537	9500	< 0.8	15	41	< 0.5	< 0.8	11000	31	6	57	12000	10	4500	220	< 1.5	76	< 1	46	30	29
			21538	9300	< 0.8	15	38	< 0.5	< 0.8	11000	29	6	45	12000	8	4000	230	< 1.5	64	< 1	46	28	25
		10-20 cm (soil)	21539	9900	< 0.8	15	42	< 0.5	< 0.8	14000	32	6	49	13000	9	5700	230	< 1.5	76	< 1	47	29	28
			21540	8300	< 0.8	15	37	< 0.5	1.1	9000	27	6	50	10000	64	3100	190	< 1.5	72	< 1	42	25	28
5030756 Green Space	B	0-5 cm (soil)	21541	17000	< 0.8	16	68	< 0.5	< 0.8	13000	51	12	110	21000	17	6600	430	< 1.5	150	< 1	55	42	51
			21542	15000	< 0.8	16	61	< 0.5	< 0.8	12000	47	12	110	19000	17	6100	360	< 1.5	150	< 1	54	39	49
		5-10 cm (soil)	21543	18000	< 0.8	16	71	< 0.5	< 0.8	13000	53	12	96	22000	15	7000	360	< 1.5	140	< 1	58	44	52
			21544	14000	< 0.8	16	59	< 0.5	< 0.8	12000	44	11	88	18000	14	5700	300	< 1.5	130	< 1	51	38	45
		10-20 cm (soil)	21545	15000	< 0.8	15	57	< 0.5	< 0.8	12000	47	9	48	19000	9	6300	290	< 1.5	69	< 1	49	38	42
			21546	16000	< 0.8	15	63	< 0.5	< 0.8	13000	48	9	53	19000	10	6000	280	< 1.5	80	< 1	55	40	45
5030757 Green Space	C	0-5 cm (soil)	21547	16000	< 0.8	15	75	< 0.5	1	13000	53	9	59	19000	11	6600	320	< 1.5	88	< 1	56	41	74
			21548	15000	< 0.8	15	75	< 0.5	1	12000	51	10	85	19000	14	6300	320	< 1.5	120	< 1	56	41	77
		5-10 cm (soil)	21549	14000	< 0.8	16	68	< 0.5	1.2	13000	48	12	100	18000	17	6200	400	< 1.5	140	< 1	53	38	69
			21550	14000	< 0.8	16	72	< 0.5	1.1	13000	48	11	110	18000	18	6000	400	< 1.5	140	1	53	38	74
		10-20 cm (soil)	21551	14000	< 0.8	16	74	< 0.5	1.1	13000	50	11	110	18000	18	6000	400	< 1.5	140	< 1	54	39	76
			21552	14000	< 0.8	15	68	< 0.5	1.2	15000	48	8	55	18000	10	6300	310	< 1.5	75	< 1	52	38	86
5030758 Play Structure	D	0-5 cm (sand)	21553	5500	< 0.8	15	21	< 0.5	< 0.8	3200	25	6	20	13000	5	3200	180	< 1.5	20	< 1	24	28	32
			21554	5400	< 0.8	15	20	< 0.5	< 0.8	3200	25	6	21	12000	5	3200	180	< 1.5	21	< 1	23	28	26

Table F (results in bold)	NG	1.0	17	210	1.2	1.0	NG	71	21	85	NG	120	NG	NG	2.5	43	1.9	NG	91	160
Table A (results in bold and underlined)	NG	13	20	750	1.2	12.0	NG	750	40	225	NG	200	NG	NG	40	150	10	NG	200	600
< - less than the Method Detection Limit. NG - no guideline. All results are in µg/g dry wt.																				

Table C4.2: Inner Community Parks

Station	Map ID	Soil Depth	Sample No.	Al	Sb	As	Ba	Be	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Mo	Ni	Se	Sr	V	Zn
Gauthier Playground (Commercial Playground),Commercial Ave. & Raymond Cr,Azilda																							
5030752 Green Space	A	0-5 cm (soil)	21521	11000	< 0.8	< 5	51	< 0.5	< 0.8	7900	35	8	61	17000	13	4300	280	< 1.5	91	1	38	32	44
			21522	11000	< 0.8	< 5	53	< 0.5	< 0.8	8400	35	8	69	17000	14	4400	300	< 1.5	100	1	34	32	47
		5-10 cm (soil)	21523	12000	< 0.8	< 5	53	< 0.5	< 0.8	8500	36	8	64	17000	13	4400	270	< 1.5	95	1	37	33	42
			21524	12000	< 0.8	< 5	54	< 0.5	< 0.8	9500	37	9	65	18000	13	5500	280	< 1.5	100	1	38	34	43
		10-20 cm (soil)	21525	14000	< 0.8	< 5	55	< 0.5	< 0.8	10000	43	8	60	19000	12	5800	290	< 1.5	96	1	50	38	40
			21526	15000	< 0.8	< 5	58	< 0.5	< 0.8	9100	44	8	53	19000	11	5300	300	< 1.5	84	< 1	52	40	41
5030753 Play Structure	B	0-5 cm (sand)	21527	7600	2.3	< 5	26	< 0.5	< 0.8	4400	32	8	23	19000	6	5000	240	< 1.5	23	< 1	33	41	33
			21528	10000	< 0.8	< 5	45	< 0.5	< 0.8	5500	36	8	24	20000	6	5400	260	< 1.5	25	< 1	42	42	35
Rk McDonald Memorial Complex (Champlain Fields),158 Ste. Agnes R.,Azilda																							
5030742 Baseball Outfield	A	0-5 cm (soil)	21397	10000	< 0.8	< 5	40	< 0.5	< 0.8	6200	35	8	69	15000	13	3600	270	< 1.5	101	< 1	44	32	36
			21398	10000	< 0.8	< 5	39	< 0.5	< 0.8	7700	35	10	75	15000	16	4300	270	< 1.5	119	< 1	50	31	36
		5-10 cm (soil)	21399	9400	< 0.8	< 5	38	< 0.5	< 0.8	4500	34	9	57	15000	14	3300	260	< 1.5	111	< 1	31	30	32
			21400	9900	< 0.8	< 5	39	< 0.5	< 0.8	5300	34	9	58	15000	13	3500	260	< 1.5	103	< 1	37	31	31
		10-20 cm (soil)	21401	11000	< 0.8	< 5	40	< 0.5	< 0.8	5600	37	9	54	16000	12	3600	280	< 1.5	105	< 1	43	34	31
			21402	13000	< 0.8	< 5	52	< 0.5	< 0.8	6700	42	9	51	18000	12	4000	290	< 1.5	92	< 1	52	38	31
5030743 Baseball Infield	B	0-5 cm (gravel)	21403	9700	< 0.8	< 5	55	< 0.5	< 0.8	13000	32	8	38	18000	9	7900	280	< 1.5	41	< 1	130	36	34
			21404	9400	< 0.8	< 5	50	< 0.5	< 0.8	10000	31	10	36	18000	10	7100	270	< 1.5	43	< 1	100	34	33
5030744 Baseball Outfield	C	0-5 cm (soil)	21405	8800	< 0.8	< 5	33	< 0.5	< 0.8	5400	31	8	61	14000	17	3200	250	< 1.5	92	< 1	42	29	30
			21406	8100	< 0.8	< 5	31	< 0.5	< 0.8	4700	29	7	54	13000	14	2900	220	< 1.5	81	< 1	37	27	27
		5-10 cm (soil)	21407	9800	< 0.8	< 5	40	< 0.5	< 0.8	5400	35	7	40	14000	9	3200	240	< 1.5	66	< 1	43	31	24
			21408	6400	< 0.8	< 5	21	< 0.5	< 0.8	3300	25	5	32	11000	5	2200	160	< 1.5	48	< 1	27	24	18
		10-20 cm (soil)	21409	7200	< 0.8	< 5	26	< 0.5	< 0.8	4000	28	6	25	12000	7	2700	200	< 1.5	44	< 1	28	27	20
			21410	6800	< 0.8	< 5	24	< 0.5	< 0.8	3400	26	6	34	12000	8	2400	180	< 1.5	58	< 1	24	24	20
5030745 Baseball Infield	D	0-5 cm (soil)	21411	6000	< 0.8	< 5	29	< 0.5	< 0.8	11000	22	6	25	11000	9	5600	180	< 1.5	39	< 1	68	23	27
			21412	6600	< 0.8	< 5	30	< 0.5	< 0.8	11000	24	5	27	12000	6	5700	190	< 1.5	27	< 1	70	23	28
5030746 Play Structure	E	0-5 cm (sand)	21413	4700	< 0.8	< 5	16	< 0.5	< 0.8	2100	23	6	25	13000	7	3300	180	< 1.5	23	< 1	12	27	24
			21414	4600	< 0.8	< 5	15	< 0.5	< 0.8	1900	22	6	25	13000	6	3300	170	< 1.5	24	< 1	10	26	24
5030747 Baseball Outfield	F	0-5 cm (soil)	21415	8200	< 0.8	< 5	31	< 0.5	< 0.8	5000	29	8	56	13000	13	3100	220	< 1.5	89	< 1	29	26	30
			21416	8400	< 0.8	< 5	31	< 0.5	< 0.8	4900	29	8	49	13000	13	3000	200	< 1.5	85	< 1	30	26	28
		5-10 cm (soil)	21417	8300	< 0.8	< 5	32	< 0.5	< 0.8	5200	29	9	51	13000	11	3300	220	< 1.5	98	< 1	28	26	27
			21418	8600	< 0.8	< 5	33	< 0.5	< 0.8	5600	29	8	49	13000	10	3400	230	< 1.5	82	< 1	30	27	27
		10-20 cm (soil)	21419	8600	< 0.8	< 5	34	< 0.5	< 0.8	4500	31	9	48	14000	12	3300	220	< 1.5	97	< 1	24	27	27
			21420	8700	< 0.8	< 5	35	< 0.5	< 0.8	5200	32	9	48	14000	11	3500	250	< 1.5	88	< 1	26	28	28
5030748 Baseball Infield	G	0-5 cm (soil)	21421	6400	< 0.8	< 5	51	< 0.5	< 0.8	16000	23	9	28	13000	8	8700	200	< 1.5	40	< 1	150	23	31

Table F (results in bold)	NG	1.0	17	210	1.2	1.0	NG	71	21	85	NG	120	NG	NG	2.5	43	1.9	NG	91	160
Table A (results in bold and underlined)	NG	13	20	750	1.2	12.0	NG	750	40	225	NG	200	NG	NG	40	150	10	NG	200	600
< - less than the Method Detection Limit. NG - no guideline. All results are in µg/g dry wt.																				

Table C4.2: Inner Community Parks																								
Station	Map ID	Soil Depth	Sample No.	Al	Sb	As	Ba	Be	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Mo	Ni	Se	Sr	V	Zn	
			21422	6300	< 0.8	< 5	61	< 0.5	< 0.8	19000	22	8	27	12000	9	10000	200	< 1.5	40	< 1	190	20	32	
5030749 Green Space	H	0-5 cm (soil)	21509	11000	< 0.8	6	45	< 0.5	< 0.8	7400	38	9	74	16000	24	4100	290	< 1.5	110	< 1	45	33	38	
			21510	10000	< 0.8	6	43	< 0.5	< 0.8	7500	38	7	76	15000	11	4100	260	< 1.5	38	< 1	46	33	36	
		5-10 cm (soil)	21511	10000	< 0.8	6	41	< 0.5	< 0.8	8500	38	7	52	15000	15	4500	250	< 1.5	77	< 1	47	33	28	
			21512	10000	< 0.8	< 5	42	< 0.5	< 0.8	8600	38	7	54	15000	13	4700	250	< 1.5	77	< 1	46	32	29	
		10-20 cm (soil)	21513	9700	< 0.8	6	34	< 0.5	< 0.8	8600	35	8	38	15000	11	4600	250	< 1.5	72	< 1	42	32	26	
			21514	10000	< 0.8	6	37	< 0.5	< 0.8	8100	34	7	41	15000	10	4500	250	< 1.5	76	< 1	40	32	28	
Shawn St. Playground, Shawn St.,Azilda																								
5030750 Green Space	A	0-5 cm (soil)	21515	10000	< 0.8	< 5	43	< 0.5	< 0.8	7700	34	8	46	16000	12	4200	250	< 1.5	66	< 1	38	32	37	
			21516	10000	< 0.8	< 5	43	< 0.5	< 0.8	7600	33	8	45	16000	13	3800	270	< 1.5	71	< 1	35	31	38	
		5-10 cm (soil)	21517	9900	< 0.8	< 5	42	< 0.5	< 0.8	8300	35	12	49	17000	16	4500	250	< 1.5	70	< 1	37	32	46	
			21518	10000	< 0.8	< 5	42	< 0.5	< 0.8	7200	35	10	60	17000	20	4100	250	< 1.5	63	< 1	37	32	54	
5030751 Play Structure	B	0-5 cm (sand)	21519	4800	< 0.8	< 5	16	< 0.5	< 0.8	3000	24	5	16	11000	5	3000	160	< 1.5	20	< 1	19	24	24	
			21520	4800	< 0.8	< 5	16	< 0.5	< 0.8	3200	25	5	16	12000	5	2900	170	< 1.5	20	< 1	20	25	25	
Trillium Centre,149 Montee Principale,Azilda																								
5030754 Football Field	A	0-5 cm (soil)	21529	13000	< 0.8	< 5	56	< 0.5	< 0.8	9600	47	8	43	17000	44	5000	300	< 1.5	72	< 1	49	37	32	
			21530	12000	< 0.8	< 5	50	< 0.5	< 0.8	9800	43	8	40	16000	34	5100	280	< 1.5	71	< 1	48	33	30	
		5-10 cm (soil)	21531	6800	< 0.8	< 5	40	< 0.5	< 0.8	8400	38	8	41	9800	19	4900	250	< 1.5	73	< 1	37	32	30	
			21532	9900	< 0.8	< 5	39	< 0.5	< 0.8	8700	37	8	38	14000	13	4900	240	< 1.5	66	< 1	37	31	30	
		10-20 cm (soil)	21533	9000	< 0.8	< 5	35	< 0.5	< 0.8	6000	39	8	51	14000	49	3600	220	< 1.5	84	< 1	31	28	35	
			21534	8400	< 0.8	< 5	34	< 0.5	< 0.8	5600	32	8	47	13000	18	3500	200	< 1.5	90	< 1	27	27	26	
Community of Garson																								
Cedar Green Playground,Alpine St.																								
5030534 Play Structure	A	0-5 cm (sand)	20383	5200	< 0.8	< 5	23	< 0.5	< 0.8	2200	23	6	14	13000	2	3100	150	< 1.5	25	< 1	18	30	16	
			20384	5300	< 0.8	< 5	22	< 0.5	< 0.8	2200	24	7	12	13000	2	3000	160	< 1.5	26	< 1	18	29	16	
Cedar Playground,Cedar St.																								
5030506 Play Structure	A	0-5 cm (sand)	20275	5800	< 0.8	< 5	26	< 0.5	< 0.8	2100	26	6	13	14000	2	3000	170	< 1.5	24	< 1	23	31	16	
			20276	7000	< 0.8	< 5	43	< 0.5	< 0.8	2700	30	6	15	15000	2	3000	190	< 1.5	28	< 1	29	35	18	
5030507 Play Structure	B	0-5 cm (sand)	20277	5800	< 0.8	< 5	24	< 0.5	< 0.8	2200	27	6	13	14000	2	2800	170	< 1.5	24	< 1	24	34	19	
			20278	6100	< 0.8	< 5	26	< 0.5	< 0.8	2200	27	6	12	14000	2	2900	170	< 1.5	23	< 1	24	32	19	

Table F (results in bold)	NG	1.0	17	210	1.2	1.0	NG	71	21	85	NG	120	NG	NG	2.5	43	1.9	NG	91	160
Table A (results in bold and underlined)	NG	13	20	750	1.2	12.0	NG	750	40	225	NG	200	NG	NG	40	150	10	NG	200	600
< - less than the Method Detection Limit. NG - no guideline. All results are in µg/g dry wt.																				

Table C4.2: Inner Community Parks																								
Station	Map ID	Soil Depth	Sample No.	Al	Sb	As	Ba	Be	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Mo	Ni	Se	Sr	V	Zn	
5030508 Green Space	C	0-5 cm (soil)	20279	12000	< 0.8	7	62	< 0.5	< 0.8	5900	38	10	95	17000	17	3300	250	< 1.5	174	< 1	42	32	45	
			20280	9600	< 0.8	8	48	< 0.5	< 0.8	4600	34	12	96	16000	22	3100	240	< 1.5	172	< 1	35	30	43	
		5-10 cm (soil)	20281	7700	< 0.8	< 5	37	< 0.5	< 0.8	3300	28	10	80	14000	13	2500	190	< 1.5	176	< 1	27	26	33	
			20282	6800	< 0.8	< 5	30	< 0.5	< 0.8	2700	24	11	90	14000	14	2300	160	< 1.5	220	< 1	21	24	31	
		10-20 cm (soil)	20283	5200	< 0.8	< 5	20	< 0.5	< 0.8	1700	20	8	50	10000	8	1800	120	< 1.5	134	< 1	15	22	20	
			20284	6300	< 0.8	< 5	24	< 0.5	< 0.8	2100	20	8	84	12000	9	1900	140	< 1.5	134	< 1	19	23	21	
Garson Community Centre,100 Church St.																								
5030504 Green Space	A	0-5 cm (soil)	20263	6500	< 0.8	< 5	19	< 0.5	< 0.8	5200	18	5	42	10000	8	3500	94	< 1.5	49	< 1	10	20	17	
			20264	8300	< 0.8	11	30	< 0.5	< 0.8	3500	23	6	68	12000	12	2300	140	< 1.5	80	1	28	26	21	
		5-10 cm (soil)	20265	8300	< 0.8	7	26	< 0.5	< 0.8	2600	21	5	37	11000	6	2000	130	< 1.5	44	< 1	26	25	16	
			20266	9400	< 0.8	13	34	< 0.5	< 0.8	2500	22	6	65	12000	11	1700	140	< 1.5	60	< 1	28	28	18	
		10-20 cm (soil)	20267	8500	< 0.8	7	26	< 0.5	< 0.8	2300	21	5	37	12000	7	1700	140	< 1.5	47	< 1	26	26	16	
			20268	8500	< 0.8	16	32	< 0.5	< 0.8	1900	22	8	100	13000	18	1600	140	< 1.5	107	< 1	21	26	20	
5030505 Green Space	B	0-5 cm (soil)	20269	8200	< 0.8	6	38	< 0.5	< 0.8	3800	25	8	65	13000	20	2600	180	< 1.5	87	< 1	31	27	28	
			20270	7300	< 0.8	7	32	< 0.5	< 0.8	3400	24	8	68	13000	22	2300	160	< 1.5	96	< 1	27	26	28	
		5-10 cm (soil)	20271	7800	< 0.8	5	31	< 0.5	< 0.8	3000	24	6	38	12000	8	2200	160	< 1.5	52	< 1	28	26	21	
			20272	6800	< 0.8	< 5	27	< 0.5	< 0.8	2800	23	6	35	11000	8	2100	180	< 1.5	52	< 1	26	26	19	
		10-20 cm (soil)	20273	7000	< 0.8	< 5	23	< 0.5	< 0.8	2400	21	5	21	11000	4	2000	140	< 1.5	36	< 1	25	24	16	
			20274	6900	< 0.8	< 5	25	< 0.5	< 0.8	2300	21	5	19	11000	4	1900	140	< 1.5	34	1	24	23	15	
Lion's Park & Playground,Birch St.																								
5030511 Baseball Infield	A	0-5 cm (soil)	20293	8200	< 0.8	< 5	26	< 0.5	< 0.8	4600	31	5	13	12000	4	2300	200	< 1.5	25	< 1	47	27	17	
			20294	7600	< 0.8	< 5	24	< 0.5	< 0.8	4500	28	5	13	12000	5	2400	200	< 1.5	28	< 1	46	27	16	
		5-10 cm (soil)	20295	9100	< 0.8	5	32	< 0.5	< 0.8	4300	31	6	13	13000	6	2600	210	< 1.5	30	< 1	46	28	17	
			20296	9300	< 0.8	< 5	33	< 0.5	< 0.8	4400	30	6	14	14000	5	2800	210	< 1.5	32	< 1	46	29	17	
		10-20 cm (soil)	20297	8900	< 0.8	< 5	30	< 0.5	< 0.8	3700	28	7	27	14000	8	2600	190	< 1.5	45	< 1	39	28	20	
			20298	6800	< 0.8	< 5	23	< 0.5	< 0.8	2900	24	4	30	11000	6	2200	160	< 1.5	37	< 1	30	24	19	
5030512 Baseball Outfield	B	0-5 cm (soil)	20299	6900	< 0.8	8	29	< 0.5	< 0.8	4500	22	9	90	11000	17	2600	160	< 1.5	153	< 1	28	25	29	
			20300	7200	< 0.8	10	33	< 0.5	< 0.8	4400	24	11	110	12000	24	2300	170	< 1.5	192	< 1	30	26	32	
		5-10 cm (soil)	20301	7000	< 0.8	5	24	< 0.5	< 0.8	2100	21	5	39	10000	8	1800	120	< 1.5	67	< 1	24	22	17	
			20302	7900	< 0.8	6	28	< 0.5	< 0.8	2900	22	8	53	11000	8	2000	140	< 1.5	74	< 1	29	25	20	
		10-20 cm (soil)	20303	6200	< 0.8	< 5	21	< 0.5	< 0.8	1900	21	5	24	10000	5	1900	110	< 1.5	39	< 1	18	22	14	
			20304	6000	1.3	< 5	20	< 0.5	< 0.8	2000	21	5	24	10000	5	1900	110	< 1.5	43	< 1	19	24	14	
5030513 Play Structure	C	0-5 cm (sand)	20305	6100	< 0.8	5	26	< 0.5	< 0.8	2500	27	11	72	14000	18	3000	170	< 1.5	102	< 1	21	27	28	
			20306	5500	< 0.8	< 5	22	< 0.5	< 0.8	2300	27	10	51	14000	18	3100	170	< 1.5	70	< 1	17	28	26	
5030514 Play Structure	D	0-5 cm (sand)	20307	5200	< 0.8	< 5	20	< 0.5	< 0.8	2000	25	6	12	13000	3	3000	160	< 1.5	25	< 1	16	28	17	

Table F (results in bold)	NG	1.0	17	210	1.2	1.0	NG	71	21	85	NG	120	NG	NG	2.5	43	1.9	NG	91	160
Table A (results in bold and underlined)	NG	13	20	750	1.2	12.0	NG	750	40	225	NG	200	NG	NG	40	150	10	NG	200	600
< - less than the Method Detection Limit. NG - no guideline. All results are in µg/g dry wt.																				

Table C4.2: Inner Community Parks																								
Station	Map ID	Soil Depth	Sample No.	Al	Sb	As	Ba	Be	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Mo	Ni	Se	Sr	V	Zn	
			20308	5200	< 0.8	< 5	23	< 0.5	< 0.8	2200	23	6	15	13000	5	3000	160	< 1.5	31	< 1	18	29	17	
5030515 Green Space	E	0-5 cm (soil)	20309	7400	< 0.8	< 5	24	< 0.5	< 0.8	2700	25	7	47	13000	16	2400	140	< 1.5	61	< 1	23	24	30	
			20310	6900	< 0.8	< 5	22	< 0.5	< 0.8	2400	23	6	41	11000	18	2000	130	< 1.5	59	< 1	20	23	23	
		5-10 cm (soil)	20311	6600	< 0.8	< 5	16	< 0.5	< 0.8	1800	20	5	27	10000	11	1600	120	< 1.5	38	< 1	16	22	20	
			20312	6500	< 0.8	< 5	15	< 0.5	< 0.8	1900	20	5	19	10000	10	1600	110	< 1.5	30	< 1	17	22	18	
		10-20 cm (soil)	20313	6400	< 0.8	< 5	26	< 0.5	< 0.8	1900	21	6	28	10000	16	1800	130	< 1.5	48	< 1	18	22	25	
			20314	8600	< 0.8	< 5	36	< 0.5	< 0.8	3100	27	8	28	12000	17	2300	180	< 1.5	50	< 1	33	26	29	
5030516 Green Space	F	0-5 cm (soil)	20315	8100	< 0.8	10	37	< 0.5	< 0.8	4900	27	12	110	14000	24	2400	160	< 1.5	194	< 1	34	32	36	
			20316	9000	< 0.8	9	41	< 0.5	< 0.8	5100	27	11	100	14000	20	2400	170	< 1.5	169	< 1	36	30	32	
		5-10 cm (soil)	20317	8600	< 0.8	6	33	< 0.5	< 0.8	3800	26	6	35	12000	8	2100	150	< 1.5	63	< 1	33	31	21	
			20318	9400	< 0.8	7	38	< 0.5	< 0.8	4100	28	6	44	13000	8	2200	160	< 1.5	85	< 1	34	33	22	
		10-20 cm (soil)	20319	5900	< 0.8	< 5	21	< 0.5	< 0.8	2000	21	4	21	9400	4	1900	110	< 1.5	36	< 1	20	21	14	
			20320	5100	< 0.8	< 5	20	< 0.5	< 0.8	1700	17	4	18	8400	3	1800	99	< 1.5	32	< 1	16	18	13	
Lorne Brady Park, Neil Drive West																								
5030522 Green Space	A	0-5 cm (soil)	20339	5000	< 0.8	< 5	18	< 0.5	< 0.8	2900	21	5	16	9600	4	2100	140	< 1.5	26	< 1	21	22	14	
			20340	4900	< 0.8	< 5	18	< 0.5	< 0.8	3000	21	5	16	9700	4	2200	150	< 1.5	25	< 1	23	22	15	
		5-10 cm (soil)	20341	5300	< 0.8	< 5	18	< 0.5	< 0.8	2700	22	4	10	9700	3	1900	150	< 1.5	20	< 1	23	23	12	
			20342	5100	< 0.8	< 5	16	< 0.5	< 0.8	2600	20	4	11	9400	1	1900	150	< 1.5	20	< 1	19	20	12	
		10-20 cm (soil)	20343	6100	< 0.8	< 5	21	< 0.5	< 0.8	1600	19	4	14	10000	2	1900	110	< 1.5	23	< 1	12	19	15	
			20344	6500	< 0.8	< 5	23	< 0.5	< 0.8	2200	20	5	18	11000	2	2000	130	< 1.5	29	< 1	19	22	14	
5030523 Green Space	B	0-5 cm (soil)	20345	6200	< 0.8	< 5	22	< 0.5	< 0.8	2900	21	4	27	9800	4	1900	140	< 1.5	37	< 1	25	21	16	
			20346	5900	< 0.8	< 5	20	< 0.5	< 0.8	2600	20	4	29	9500	3	1900	140	< 1.5	30	< 1	22	20	14	
5030524 Baseball Infield	C	0-5 cm (soil)	20347	7800	< 0.8	< 5	39	< 0.5	< 0.8	5300	29	6	22	14000	5	3600	190	< 1.5	34	< 1	37	26	26	
			20348	6900	< 0.8	< 5	40	< 0.5	< 0.8	4200	26	6	21	13000	7	3300	170	< 1.5	35	< 1	31	24	24	
5030525 Baseball Outfield	D	0-5 cm (soil)	20349	7600	< 0.8	< 5	32	< 0.5	< 0.8	2900	22	6	38	12000	17	2100	130	< 1.5	60	< 1	21	22	26	
			20350	7400	< 0.8	< 5	31	< 0.5	< 0.8	3200	22	6	41	11000	16	2200	120	< 1.5	56	< 1	21	22	27	
		5-10 cm (soil)	20351	6300	< 0.8	< 5	29	< 0.5	< 0.8	2000	21	5	42	10000	19	1900	120	< 1.5	46	< 1	17	22	27	
			20352	6300	< 0.8	< 5	29	< 0.5	< 0.8	2400	21	5	29	11000	19	2000	120	< 1.5	43	< 1	19	22	25	
		10-20 cm (soil)	20353	8700	< 0.8	< 5	45	< 0.5	< 0.8	3000	26	5	26	12000	15	2300	160	< 1.5	37	< 1	30	26	30	
			20354	8400	2.8	< 5	40	< 0.5	< 0.8	2800	24	5	23	12000	15	2400	140	< 1.5	38	< 1	28	25	25	
5030526 Baseball Infield	E	0-5 cm (soil)	20355	7400	< 0.8	< 5	30	< 0.5	< 0.8	6700	26	5	11	12000	2	3600	160	< 1.5	20	< 1	40	24	16	
			20356	7100	< 0.8	< 5	29	< 0.5	< 0.8	6200	24	5	12	12000	2	3300	160	< 1.5	22	< 1	38	23	17	

Table F (results in bold)	NG	1.0	17	210	1.2	1.0	NG	71	21	85	NG	120	NG	NG	2.5	43	1.9	NG	91	160
Table A (results in bold and underlined)	NG	13	20	750	1.2	12.0	NG	750	40	225	NG	200	NG	NG	40	150	10	NG	200	600
< - less than the Method Detection Limit. NG - no guideline. All results are in µg/g dry wt.																				

Table C4.2: Inner Community Parks

Station	Map ID	Soil Depth	Sample No.	Al	Sb	As	Ba	Be	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Mo	Ni	Se	Sr	V	Zn
5030527 Baseball Outfield	F	0-5 cm (soil)	20357	9600	< 0.8	< 5	41	< 0.5	< 0.8	3700	24	6	41	12000	7	2100	150	< 1.5	56	< 1	30	25	28
			20358	6600	< 0.8	< 5	27	< 0.5	< 0.8	3200	19	5	41	10000	10	1900	130	< 1.5	57	< 1	22	20	22
		5-10 cm (soil)	20359	6000	< 0.8	< 5	23	< 0.5	< 0.8	1900	19	4	31	10000	6	1900	120	< 1.5	31	< 1	15	20	16
			20360	6100	< 0.8	< 5	24	< 0.5	< 0.8	2300	19	5	33	11000	6	1800	130	< 1.5	38	< 1	17	22	17
		10-20 cm (soil)	20361	5700	< 0.8	< 5	23	< 0.5	< 0.8	1600	19	4	13	9800	3	2000	120	< 1.5	24	< 1	14	20	14
			20362	6100	< 0.8	< 5	27	< 0.5	< 0.8	2100	19	4	20	10000	4	2300	130	< 1.5	25	< 1	17	21	15
5030528 Baseball Infield	G	0-5 cm (soil)	20363	5200	< 0.8	< 5	20	< 0.5	< 0.8	3700	21	4	12	9300	4	2400	140	< 1.5	24	< 1	27	20	18
			20364	5500	< 0.8	< 5	20	< 0.5	< 0.8	3900	21	5	14	10000	4	2400	150	< 1.5	23	< 1	28	21	18
5030529 Baseball Outfield	H	0-5 cm (soil)	20365	7900	< 0.8	< 5	26	< 0.5	< 0.8	15000	20	6	48	10000	15	8200	120	< 1.5	73	< 1	27	20	32
			20366	7900	0.8	< 5	30	< 0.5	< 0.8	8000	22	6	59	11000	16	3900	130	< 1.5	83	< 1	28	21	36
		5-10 cm (soil)	20367	7200	< 0.8	< 5	21	< 0.5	< 0.8	14000	17	5	36	9500	10	8100	92	< 1.5	56	< 1	19	19	21
			20368	7300	< 0.8	< 5	23	< 0.5	< 0.8	13000	19	5	43	10000	10	7400	99	< 1.5	57	< 1	22	20	23
		10-20 cm (soil)	20369	8300	< 0.8	6	24	< 0.5	< 0.8	3000	21	4	35	11000	9	2100	93	< 1.5	44	< 1	20	22	18
			20370	10000	< 0.8	5	39	< 0.5	< 0.8	3400	24	4	32	11000	7	1800	120	< 1.5	40	< 1	31	26	19
Matson Playground, Falconbridge Rd.																							
5030535 Play Structure	A	0-5 cm (sand)	20385	3900	< 0.8	< 5	16	< 0.5	< 0.8	2300	20	4	9.7	10000	2	2100	130	< 1.5	14	< 1	18	22	12
			20386	4100	< 0.8	< 5	17	< 0.5	< 0.8	2400	20	4	9.7	9900	2	2200	130	< 1.5	14	< 1	19	22	12
Metcalf Playground (Imperial Subdivision Playground), Metcalfe Ave.																							
5030530 Play Structure	A	0-5 cm (sand)	20371	6600	< 0.8	5	30	< 0.5	< 0.8	2300	28	7	20	14000	4	3000	170	< 1.5	26	< 1	22	29	29
			20372	7000	< 0.8	5	34	< 0.5	< 0.8	2400	29	8	20	15000	3	2900	180	< 1.5	24	< 1	23	29	30
5030531 Play Structure	B	0-5 cm (sand)	20373	7700	< 0.8	< 5	36	< 0.5	< 0.8	2700	25	5	17	12000	3	2400	160	< 1.5	21	< 1	26	24	17
			20374	6400	< 0.8	< 5	28	< 0.5	< 0.8	2700	24	6	14	12000	3	2600	150	< 1.5	21	< 1	23	24	18
5030532 Play Structure	C	0-5 cm (sand)	20375	8400	< 0.8	< 5	42	< 0.5	< 0.8	2800	30	7	24	15000	8	2800	190	< 1.5	33	< 1	30	33	81
			20376	6400	< 0.8	< 5	29	< 0.5	< 0.8	2600	27	9	22	15000	7	3200	180	< 1.5	32	< 1	22	32	71
5030533 Green Space	D	0-5 cm (soil)	20377	10000	< 0.8	5	43	< 0.5	< 0.8	4000	30	7	53	14000	11	2800	190	< 1.5	62	< 1	38	28	24
			20378	8600	< 0.8	< 5	33	< 0.5	< 0.8	4000	29	7	42	13000	12	2600	190	< 1.5	65	< 1	35	27	21
		5-10 cm (soil)	20379	8600	< 0.8	< 5	38	< 0.5	< 0.8	2700	28	7	32	13000	9	2500	160	< 1.5	48	< 1	26	26	19
			20380	8700	< 0.8	< 5	34	< 0.5	< 0.8	3900	28	6	19	12000	5	2500	180	< 1.5	28	< 1	38	28	17
		10-20 cm (soil)	20381	11000	< 0.8	< 5	66	< 0.5	< 0.8	3600	38	9	23	17000	7	3700	250	< 1.5	29	< 1	35	32	20
			20382	12000	< 0.8	< 5	75	< 0.5	< 0.8	3500	40	8	23	18000	6	4400	270	< 1.5	37	< 1	36	34	23
Penman Avenue Playground, Penman Ave																							
5030519 Play Structure	A	0-5 cm (sand)	20329	4500	< 0.8	< 5	18	< 0.5	< 0.8	2300	24	5	15	13000	5	2700	140	< 1.5	25	< 1	16	28	29
			20330	4500	< 0.8	< 5	17	< 0.5	< 0.8	2300	23	5	19	11000	3	2700	140	< 1.5	23	< 1	16	25	28
5030520 Play Structure	B	0-5 cm (sand)	20331	7500	< 0.8	< 5	36	< 0.5	< 0.8	4200	30	5	17	13000	3	2800	190	< 1.5	35	< 1	34	31	20
			20332	6200	< 0.8	< 5	26	< 0.5	< 0.8	3600	25	5	18	12000	3	2700	170	< 1.5	40	< 1	29	25	19

Table F (results in bold)	NG	1.0	17	210	1.2	1.0	NG	71	21	85	NG	120	NG	NG	2.5	43	1.9	NG	91	160
Table A (results in bold and underlined)	NG	13	20	750	1.2	12.0	NG	750	40	225	NG	200	NG	NG	40	150	10	NG	200	600
< - less than the Method Detection Limit. NG - no guideline. All results are in µg/g dry wt.																				

Table C4.2: Inner Community Parks																								
Station	Map ID	Soil Depth	Sample No.	Al	Sb	As	Ba	Be	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Mo	Ni	Se	Sr	V	Zn	
5030521 Green Space	C	0-5 cm (soil)	20333	9000	< 0.8	7	40	< 0.5	< 0.8	5000	27	10	110	12000	19	2400	150	< 1.5	236	< 1	36	26	32	
			20334	8000	< 0.8	7	37	< 0.5	< 0.8	5700	24	11	140	12000	24	2800	140	< 1.5	276	< 1	33	24	42	
		5-10 cm (soil)	20335	8700	< 0.8	6	35	< 0.5	< 0.8	3900	26	7	49	11000	10	2100	140	< 1.5	162	< 1	34	26	25	
			20336	8100	< 0.8	6	32	< 0.5	< 0.8	3900	24	7	60	11000	12	2100	130	< 1.5	184	< 1	33	25	27	
		10-20 cm (soil)	20337	6400	< 0.8	< 5	26	< 0.5	< 0.8	2500	22	6	24	10000	11	1800	130	< 1.5	89	< 1	25	23	16	
			20338	6500	< 0.8	< 5	26	< 0.5	< 0.8	2500	21	7	38	10000	17	1800	120	< 1.5	124	< 1	22	23	20	
Saturn Playground,Neil Drive East at End of Catherine St.																								
5030503 Play Structure	A	0-5 cm (sand)	20261	5300	< 0.8	< 5	22	< 0.5	< 0.8	2000	26	6	19	14000	3	3100	160	< 1.5	23	< 1	17	29	21	
			20262	5200	< 0.8	< 5	23	< 0.5	< 0.8	2000	26	7	19	14000	3	3000	160	< 1.5	25	< 1	19	32	19	
Thomas Street Playground Tot Lot,Thomas St.																								
5030517 Play Structure	A	0-5 cm (sand)	20321	4700	< 0.8	< 5	18	< 0.5	< 0.8	2100	24	8	16	12000	3	2400	140	< 1.5	24	< 1	18	27	16	
			20322	4900	< 0.8	< 5	18	< 0.5	< 0.8	2100	23	5	16	11000	2	2600	140	< 1.5	23	< 1	17	25	16	
5030518 Green Space	B	0-5 cm (soil)	20323	8200	< 0.8	6	41	< 0.5	< 0.8	2600	28	9	65	14000	12	2900	160	< 1.5	76	< 1	27	26	21	
			20324	6700	< 0.8	6	34	< 0.5	< 0.8	2300	25	8	64	12000	13	2600	140	< 1.5	76	< 1	22	24	22	
		5-10 cm (soil)	20325	8600	< 0.8	< 5	41	< 0.5	< 0.8	2400	26	6	37	13000	7	2600	150	< 1.5	54	< 1	26	27	20	
			20326	8100	< 0.8	6	39	< 0.5	< 0.8	2500	25	7	49	13000	8	2500	150	< 1.5	65	< 1	25	26	21	
		10-20 cm (soil)	20327	6900	< 0.8	< 5	27	< 0.5	< 0.8	2200	23	6	25	11000	5	2200	130	< 1.5	41	< 1	24	24	15	
			20328	6100	< 0.8	< 5	21	< 0.5	< 0.8	1700	19	5	31	10000	5	1800	98	< 1.5	47	< 1	16	21	16	
Tiger Field,Pine St.																								
5030509 Baseball Infield	A	0-5 cm (soil)	20285	5800	< 0.8	< 5	23	< 0.5	< 0.8	3700	23	6	26	11000	6	2900	160	< 1.5	41	< 1	28	22	24	
			20286	5800	< 0.8	< 5	23	< 0.5	< 0.8	3800	23	6	27	11000	6	2800	160	< 1.5	42	< 1	27	24	22	
5030510 Baseball Outfield	B	0-5 cm (soil)	20287	6700	< 0.8	14	25	< 0.5	< 0.8	4300	24	12	160	14000	23	2200	130	< 1.5	203	< 1	24	24	23	
			20288	7900	< 0.8	18	32	< 0.5	< 0.8	3100	27	16	230	15000	34	2400	140	< 1.5	289	2	26	25	30	
		5-10 cm (soil)	20289	6600	< 0.8	10	20	< 0.5	< 0.8	1400	20	8	86	11000	10	2000	100	< 1.5	125	< 1	13	21	17	
			20290	7400	< 0.8	10	23	< 0.5	< 0.8	1700	21	8	86	12000	11	2000	110	< 1.5	130	< 1	18	24	19	
		10-20 cm (soil)	20291	6700	< 0.8	< 5	25	< 0.5	< 0.8	1500	21	6	36	11000	6	1900	110	< 1.5	64	< 1	17	23	14	
			20292	11000	< 0.8	6	39	< 0.5	< 0.8	2800	26	7	34	14000	5	2200	140	< 1.5	78	< 1	33	28	15	
Community of Lively																								
B Street Ballfield (George Vanier),B St. and 9th Ave.																								
5030932 Baseball Infield	A	0-5 cm (gravel)	18232	9100	< 0.8	< 5	40	< 0.5	< 0.8	9000	24	7	52	14000	10	4600	200	< 1.5	87	< 1	56	29	27	
			18233	9400	< 0.8	< 5	42	< 0.5	< 0.8	8700	25	8	69	14000	10	4400	210	< 1.5	140	< 1	59	29	26	

Table F (results in bold)	NG	1.0	17	210	1.2	1.0	NG	71	21	85	NG	120	NG	NG	2.5	43	1.9	NG	91	160
Table A (results in bold and underlined)	NG	13	20	750	1.2	12.0	NG	750	40	225	NG	200	NG	NG	40	150	10	NG	200	600
< - less than the Method Detection Limit.																				
NG - no guideline.																				
All results are in µg/g dry wt.																				

Table C4.2: Inner Community Parks																								
Station	Map ID	Soil Depth	Sample No.	Al	Sb	As	Ba	Be	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Mo	Ni	Se	Sr	V	Zn	
5030933 Baseball Outfield	B	0-5 cm (soil)	18234	14000	< 0.8	10	78	< 0.5	< 0.8	5000	37	14	190	19000	32	2900	200	< 1.5	290	2	47	37	41	
			18235	13000	< 0.8	11	70	< 0.5	< 0.8	4600	34	12	180	18000	25	2900	190	< 1.5	260	1	46	36	44	
		5-10 cm (soil)	18236	13000	< 0.8	11	58	< 0.5	< 0.8	4500	31	9	110	16000	12	2900	200	< 1.5	140	< 1	41	35	33	
			18237	11000	< 0.8	10	54	< 0.5	< 0.8	3500	29	9	100	15000	10	2800	190	< 1.5	130	< 1	30	31	31	
		10-20 cm (soil)	18238	9800	< 0.8	7	50	< 0.5	< 0.8	3500	28	8	67	17000	9	3500	240	< 1.5	75	< 1	25	35	30	
			18239	11000	< 0.8	7	59	< 0.5	< 0.8	3400	33	9	71	19000	10	4000	260	< 1.5	74	< 1	25	36	31	
Beaver Lake Playground,45 Club R																								
5030877 Play Area	A	0-5 cm (sand)	18130	7700	< 0.8	< 5	26	< 0.5	< 0.8	3200	24	8	39	20000	9	4300	220	< 1.5	68	< 1	41	38	32	
			18131	7500	< 0.8	< 5	26	< 0.5	< 0.8	2700	23	8	38	18000	10	4200	220	< 1.5	27	< 1	32	40	32	
5030878 Green Space	B	0-5 cm (soil)	18132	20000	< 0.8	6	100	< 0.5	< 0.8	3700	58	14	39	28000	27	7700	470	< 1.5	52	< 1	41	52	75	
			18133	21000	< 0.8	< 5	110	< 0.5	< 0.8	3700	59	15	42	29000	20	7800	530	< 1.5	49	< 1	41	55	78	
		5-10 cm (soil)	18134	26000	< 0.8	< 5	130	< 0.5	< 0.8	4200	66	14	34	34000	24	9500	510	< 1.5	44	< 1	47	60	76	
			18135	37000	< 0.8	< 5	210	0.6	< 0.8	5300	77	14	31	36000	13	10000	540	< 1.5	41	< 1	58	74	86	
		10-20 cm (soil)	18136	29000	< 0.8	< 5	150	< 0.5	< 0.8	4300	65	11	25	32000	12	8900	450	< 1.5	37	< 1	54	63	71	
			18137	31000	< 0.8	< 5	160	0.5	< 0.8	5200	65	13	26	35000	11	9500	490	< 1.5	38	< 1	56	66	80	
Black Lake Bad Playground,Black Lake R																								
5030862 Play Structure	A	0-5 cm (sand)	18014	9700	< 0.8	5	48	< 0.5	< 0.8	3900	36	9	40	16000	7	4000	230	< 1.5	38	< 1	35	35	38	
			18015	9400	< 0.8	5	44	< 0.5	< 0.8	3700	36	10	41	17000	10	4000	240	< 1.5	37	< 1	34	36	37	
5030863 Green Space	B	0-5 cm (soil)	18016	9900	< 0.8	5	39	< 0.5	< 0.8	3100	30	9	79	15000	15	2900	210	< 1.5	89	< 1	31	30	40	
			18017	8300	< 0.8	< 5	29	< 0.5	< 0.8	2900	24	7	39	13000	7	2700	180	< 1.5	32	< 1	25	28	26	
		5-10 cm (soil)	18018	13000	< 0.8	< 5	48	< 0.5	< 0.8	3100	35	8	65	16000	13	3000	220	< 1.5	69	< 1	33	34	40	
			18019	9000	< 0.8	< 5	37	< 0.5	< 0.8	3000	29	8	78	15000	17	3100	210	< 1.5	84	< 1	29	30	40	
		10-20 cm (soil)	18020	13000	< 0.8	5	48	< 0.5	< 0.8	3600	32	7	64	17000	11	2700	210	< 1.5	70	< 1	38	34	35	
			18021	9300	< 0.8	< 5	33	< 0.5	< 0.8	3100	26	7	53	15000	10	2800	200	< 1.5	49	< 1	31	30	32	
Central Park,213 6th Avenue																								
5030859 Green Space	A	0-5 cm (soil)	18000	9400	< 0.8	< 5	40	< 0.5	< 0.8	6100	31	7	63	14000	14	3100	220	< 1.5	81	< 1	42	29	36	
			18001	10000	< 0.8	< 5	43	< 0.5	< 0.8	5500	32	7	67	14000	14	3100	230	< 1.5	85	< 1	45	32	38	
		5-10 cm (soil)	18002	8000	< 0.8	< 5	33	< 0.5	< 0.8	7200	25	6	36	12000	7	3600	190	< 1.5	44	< 1	36	27	23	
			18003	8700	< 0.8	< 5	37	< 0.5	< 0.8	4600	27	7	47	14000	12	3100	200	< 1.5	59	< 1	36	29	27	
		10-20 cm (soil)	18004	11000	< 0.8	< 5	55	< 0.5	< 0.8	5900	35	8	56	15000	12	3600	250	< 1.5	73	< 1	40	36	36	
			18005	10000	< 0.8	6	52	< 0.5	< 0.8	4400	33	7	52	17000	10	3400	240	< 1.5	61	< 1	37	35	32	

Table F (results in bold)	NG	1.0	17	210	1.2	1.0	NG	71	21	85	NG	120	NG	NG	2.5	43	1.9	NG	91	160
Table A (results in bold and underlined)	NG	13	20	750	1.2	12.0	NG	750	40	225	NG	200	NG	NG	40	150	10	NG	200	600
< - less than the Method Detection Limit. NG - no guideline. All results are in µg/g dry wt.																				

Table C4.2: Inner Community Parks

Station	Map ID	Soil Depth	Sample No.	Al	Sb	As	Ba	Be	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Mo	Ni	Se	Sr	V	Zn
5030860 Green Space	B	0-5 cm (soil)	18006	16000	< 0.8	10	81	< 0.5	< 0.8	4000	46	15	210	20000	30	3300	260	< 1.5	280	2	44	37	52
			18007	16000	< 0.8	11	80	< 0.5	< 0.8	4000	41	13	170	18000	20	3400	270	< 1.5	230	1	44	37	53
		5-10 cm (soil)	18008	15000	< 0.8	9	93	< 0.5	< 0.8	3900	45	10	84	17000	13	3600	310	< 1.5	150	< 1	42	39	57
			18009	16000	< 0.8	8	95	< 0.5	< 0.8	4000	46	9	69	18000	11	3500	290	< 1.5	150	< 1	44	40	160
		10-20 cm (soil)	18010	16000	< 0.8	7	85	< 0.5	< 0.8	4000	41	8	58	19000	10	4000	280	< 1.5	80	< 1	50	40	44
			18011	23000	< 0.8	7	120	< 0.5	< 0.8	4400	51	8	57	22000	11	4600	320	< 1.5	74	< 1	58	49	66
Fielding Memorial Park Complex,345 Fielding Rd.																							
5030940 Green Space	A	0-5 cm (soil)	19354	7800	< 0.8	6	25	< 0.5	< 0.8	2300	22	6	62	11000	10	1400	190	< 1.5	85	< 1	25	24	25
			19355	6800	< 0.8	6	23	< 0.5	< 0.8	1800	20	5	56	10000	9	1300	170	< 1.5	73	< 1	17	22	23
		5-10 cm (soil)	19356	7500	< 0.8	6	26	< 0.5	< 0.8	2100	21	6	51	11000	9	1400	200	< 1.5	68	< 1	24	24	23
			19357	7400	< 0.8	6	26	< 0.5	< 0.8	2000	21	6	65	11000	9	1300	190	< 1.5	81	< 1	22	23	23
		10-20 cm (soil)	19358	7700	< 0.8	8	29	< 0.5	< 0.8	2100	22	6	70	11000	10	1400	200	< 1.5	86	< 1	23	24	31
			19359	7000	< 0.8	9	33	< 0.5	< 0.8	1800	21	7	95	11000	12	1400	190	< 1.5	115	1	20	22	23
5030941 Play Structure	B	0-5 cm (sand)	19360	5500	< 0.8	< 5	17	< 0.5	< 0.8	1900	28	8	26	13000	5	3800	160	< 1.5	29	< 1	16	22	27
			19361	6100	< 0.8	< 5	21	< 0.5	< 0.8	2500	30	8	27	13000	6	3800	180	< 1.5	35	< 1	22	24	27
5030942 Green Space	C	0-5 cm (soil)	19362	10000	< 0.8	7	37	< 0.5	< 0.8	3300	29	6	70	13000	12	1900	200	< 1.5	100	< 1	38	28	28
			19363	8400	1.2	< 5	31	< 0.5	< 0.8	2300	23	6	69	11000	11	1600	180	< 1.5	88	< 1	27	24	25
		5-10 cm (soil)	19364	8900	< 0.8	6	34	< 0.5	< 0.8	2500	24	6	68	12000	10	1700	160	< 1.5	92	< 1	30	26	26
			19365	8900	< 0.8	6	34	< 0.5	< 0.8	2500	24	6	72	12000	10	1600	190	< 1.5	94	< 1	30	25	26
		10-20 cm (soil)	19366	12000	< 0.8	8	42	< 0.5	< 0.8	4100	25	6	100	15000	14	2200	190	< 1.5	102	< 1	38	10	32
			19367	17000	< 0.8	< 5	87	< 0.5	< 0.8	4300	37	8	110	17000	13	3000	230	< 1.5	128	1	45	15	38
Goodwill Playground,540 Bg. Rd. 55																							
5030926 Play Structure	A	0-5 cm (sand)	18208	6300	< 0.8	< 5	17	< 0.5	< 0.8	2000	30	13	36	14000	7	3700	160	< 1.5	36	< 1	17	26	36
			18209	6300	< 0.8	< 5	18	< 0.5	< 0.8	2000	29	11	35	13000	7	3500	150	< 1.5	33	< 1	18	24	36
5030927 Green Space	B	0-5 cm (soil)	18210	6400	< 0.8	5	22	< 0.5	< 0.8	2300	22	8	55	15000	9	3200	170	< 1.5	49	< 1	19	28	26
			18211	6800	< 0.8	< 5	24	< 0.5	< 0.8	2700	23	9	59	15000	10	3200	180	< 1.5	56	< 1	23	30	27
		5-10 cm (soil)	18212	6700	< 0.8	< 5	26	< 0.5	< 0.8	2800	22	10	38	15000	7	3200	200	< 1.5	34	< 1	23	32	26
			18213	10000	< 0.8	< 5	47	< 0.5	< 0.8	4400	26	10	41	18000	7	3600	250	< 1.5	41	< 1	35	39	29
		10-20 cm (soil)	18214	9000	< 0.8	< 5	37	< 0.5	< 0.8	4400	24	8	35	16000	6	3300	220	< 1.5	25	< 1	35	37	25
			18215	9300	< 0.8	< 5	39	< 0.5	< 0.8	4200	24	9	36	17000	6	3200	230	< 1.5	28	< 1	35	38	24
Hicrest Sports Centre,Hicrest Dr.																							
5030934 Play Structure	A	0-5 cm (sand)	18240	9800	< 0.8	< 5	40	< 0.5	< 0.8	3800	36	10	60	23000	10	7100	320	< 1.5	36	< 1	26	49	43
			18241	8700	< 0.8	< 5	38	< 0.5	< 0.8	3300	34	11	56	24000	10	6500	300	< 1.5	32	< 1	18	49	44

Table F (results in bold)	NG	1.0	17	210	1.2	1.0	NG	71	21	85	NG	120	NG	NG	2.5	43	1.9	NG	91	160
Table A (results in bold and underlined)	NG	13	20	750	1.2	12.0	NG	750	40	225	NG	200	NG	NG	40	150	10	NG	200	600
< - less than the Method Detection Limit. NG - no guideline. All results are in µg/g dry wt.																				

Table C4.2: Inner Community Parks

Station	Map ID	Soil Depth	Sample No.	Al	Sb	As	Ba	Be	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Mo	Ni	Se	Sr	V	Zn
5030935 Soccer Field	B	0-5 cm (soil)	18242	9300	< 0.8	6	45	< 0.5	< 0.8	7300	31	7	45	15000	12	3600	270	< 1.5	63	< 1	32	29	28
			18243	9300	< 0.8	9	48	< 0.5	< 0.8	7600	32	7	43	17000	10	3900	310	< 1.5	57	< 1	28	29	30
		5-10 cm (soil)	18244	9800	< 0.8	8	51	< 0.5	< 0.8	9500	36	7	43	18000	10	5000	290	< 1.5	57	< 1	32	32	32
			18245	9500	< 0.8	6	49	< 0.5	< 0.8	8000	35	7	48	17000	9	4400	280	< 1.5	53	< 1	32	31	31
		10-20 cm (soil)	18246	9800	< 0.8	5	47	< 0.5	< 0.8	7300	35	6	48	16000	10	3900	250	< 1.5	57	< 1	31	30	32
			18247	8700	< 0.8	< 5	41	< 0.5	< 0.8	5200	30	6	41	14000	8	3500	210	< 1.5	52	< 1	22	26	28
5030936 Soccer Field	C	0-5 cm (soil)	18248	9600	< 0.8	5	44	< 0.5	< 0.8	8100	33	7	53	15000	13	3700	280	< 1.5	75	< 1	32	29	31
			18249	9000	< 0.8	7	44	< 0.5	< 0.8	8000	32	7	49	14000	11	3900	310	< 1.5	66	< 1	26	27	30
		5-10 cm (soil)	18250	9900	< 0.8	5	47	< 0.5	< 0.8	10000	37	8	54	16000	13	5000	290	< 1.5	68	< 1	34	30	33
			18251	10000	< 0.8	5	47	< 0.5	< 0.8	10000	38	7	42	16000	11	5000	290	< 1.5	56	< 1	39	32	32
		10-20 cm (soil)	18252	14000	< 0.8	7	68	< 0.5	< 0.8	13000	48	8	45	20000	12	6300	360	< 1.5	61	< 1	59	43	36
			18253	13000	< 0.8	5	65	< 0.5	< 0.8	12000	44	7	43	18000	10	5700	330	< 1.5	55	< 1	55	39	33
5030937 Soccer Field	D	0-5 cm (soil)	18254	16000	< 0.8	6	93	< 0.5	< 0.8	5100	45	8	76	18000	13	3700	230	< 1.5	110	< 1	50	39	33
			18255	16000	< 0.8	5	95	< 0.5	< 0.8	5300	42	8	86	18000	14	3800	260	< 1.5	120	< 1	50	39	34
		5-10 cm (soil)	18256	16000	< 0.8	< 5	100	< 0.5	< 0.8	4600	40	7	61	17000	10	3500	210	< 1.5	72	< 1	52	38	29
			18257	11000	< 0.8	< 5	59	< 0.5	< 0.8	3500	31	9	61	14000	12	2900	200	< 1.5	89	< 1	42	30	26
		10-20 cm (soil)	18258	9600	< 0.8	< 5	55	< 0.5	< 0.8	3300	30	7	46	15000	8	2900	190	< 1.5	57	< 1	40	30	24
			18259	11000	< 0.8	< 5	56	< 0.5	< 0.8	3400	31	8	60	15000	10	3000	190	< 1.5	79	< 1	40	29	24
5030938 Baseball Infield	E	0-5 cm (soil)	18260	5200	< 0.8	< 5	30	< 0.5	< 0.8	5900	17	6	31	10000	7	3900	140	< 1.5	45	< 1	61	20	19
			18261	6200	< 0.8	< 5	32	< 0.5	< 0.8	5800	19	6	31	11000	6	3700	160	< 1.5	45	< 1	63	23	21
5030939 Baseball Outfield	F	0-5 cm (soil)	18262	9800	< 0.8	< 5	29	< 0.5	< 0.8	4500	26	6	36	13000	8	2600	160	< 1.5	60	< 1	37	28	21
			18263	9100	< 0.8	< 5	27	< 0.5	< 0.8	4300	24	5	29	13000	6	2700	150	< 1.5	49	< 1	30	26	20
		5-10 cm (soil)	18264	9700	< 0.8	< 5	29	< 0.5	< 0.8	3300	25	5	13	13000	5	2100	150	< 1.5	26	< 1	33	27	19
			18265	9800	< 0.8	< 5	30	< 0.5	< 0.8	3500	26	5	12	13000	7	2100	170	< 1.5	26	< 1	34	27	19
		10-20 cm (soil)	18266	9800	< 0.8	< 5	37	< 0.5	< 0.8	3400	26	6	17	13000	6	2700	180	< 1.5	32	< 1	30	27	22
			18267	11000	< 0.8	< 5	49	< 0.5	< 0.8	3900	31	7	20	15000	7	3100	210	< 1.5	37	< 1	36	30	24
Long Lake Park,1200 Kntola R.																							
5030861 Beach	A	0-5 cm (sand)	18012	9800	< 0.8	6	56	< 0.5	< 0.8	3400	38	9	75	15000	16	3800	180	< 1.5	91	< 1	32	31	36
			18013	10000	< 0.8	5	49	< 0.5	< 0.8	3600	39	9	59	16000	12	4000	180	< 1.5	63	< 1	31	33	39
Meatbird Lake Park,785 Bg. R. 24																							
5030928 Play Structure	A	0-5 cm (sand)	18216	9800	< 0.8	7	47	< 0.5	< 0.8	3000	37	11	43	16000	7	3800	180	< 1.5	34	< 1	28	33	32
			18217	9600	< 0.8	6	46	< 0.5	< 0.8	3000	35	10	42	15000	6	3900	170	< 1.5	35	< 1	27	30	32
5030929 Beach	B	0-5 cm (sand)	18218	6800	< 0.8	< 5	24	< 0.5	< 0.8	3600	28	8	29	18000	6	3800	210	< 1.5	36	< 1	28	40	22
			18219	4100	< 0.8	< 5	20	< 0.5	< 0.8	1300	18	7	27	10000	6	3000	150	< 1.5	31	< 1	10	18	18
5030930 Green Space	C	0-5 cm (soil)	18220	9900	0.9	< 5	53	< 0.5	< 0.8	4000	40	11	210	19000	16	4300	230	< 1.5	130	1	28	34	32

Table F (results in bold)	NG	1.0	17	210	1.2	1.0	NG	71	21	85	NG	120	NG	NG	2.5	43	1.9	NG	91	160
Table A (results in bold and underlined)	NG	13	20	750	1.2	12.0	NG	750	40	225	NG	200	NG	NG	40	150	10	NG	200	600
< - less than the Method Detection Limit. NG - no guideline. All results are in µg/g dry wt.																				

Table C4.2: Inner Community Parks

Station	Map ID	Soil Depth	Sample No.	Al	Sb	As	Ba	Be	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Mo	Ni	Se	Sr	V	Zn
			18221	12000	< 0.8	6	67	< 0.5	< 0.8	5200	47	13	210	22000	20	5200	280	< 1.5	160	1	38	40	38
		5-10 cm (soil)	18222	13000	< 0.8	< 5	65	< 0.5	< 0.8	4800	53	10	120	21000	11	5100	240	< 1.5	110	1	37	40	32
			18223	14000	< 0.8	< 5	72	< 0.5	< 0.8	5100	52	10	180	22000	13	5100	260	< 1.5	110	< 1	41	42	34
		10-20 cm (soil)	18224	14000	< 0.8	< 5	77	< 0.5	< 0.8	5600	60	10	150	23000	10	6100	260	< 1.5	100	< 1	39	43	33
			18225	17000	< 0.8	< 5	110	< 0.5	< 0.8	6000	69	12	130	27000	10	7100	330	< 1.5	110	< 1	45	51	36
5030931 Green Space	D	0-5 cm (soil)	18226	10000	< 0.8	< 5	41	< 0.5	< 0.8	4500	27	8	62	15000	10	3700	190	< 1.5	86	< 1	30	30	25
			18227	8600	< 0.8	< 5	35	< 0.5	< 0.8	3600	25	7	69	14000	10	3300	170	< 1.5	70	< 1	23	26	25
		5-10 cm (soil)	18228	9800	< 0.8	7	41	< 0.5	< 0.8	2800	26	8	60	15000	11	2600	200	< 1.5	75	< 1	28	29	25
			18229	9000	< 0.8	6	34	< 0.5	< 0.8	2700	23	6	44	13000	9	2400	170	< 1.5	56	< 1	26	26	22
		10-20 cm (soil)	18230	13000	< 0.8	6	58	< 0.5	< 0.8	3900	30	8	74	17000	13	2800	250	< 1.5	91	< 1	40	35	32
			18231	12000	< 0.8	7	48	< 0.5	< 0.8	3400	28	8	65	16000	12	2600	210	< 1.5	79	< 1	38	33	27
		Pineheights Park,72 Jacob St.																					
5030864 Play Structure	A	0-5 cm (sand)	18022	6700	< 0.8	7	26	< 0.5	< 0.8	2500	29	8	32	12000	5	3100	160	< 1.5	31	< 1	22	24	27
			18023	6100	< 0.8	6	27	< 0.5	< 0.8	2300	30	7	27	11000	5	2900	160	< 1.5	29	< 1	20	24	27
5030865 Green Space	B	0-5 cm (soil)	18024	8800	< 0.8	< 5	53	< 0.5	< 0.8	3000	26	7	55	15000	10	2400	510	< 1.5	74	< 1	30	29	37
			18025	8900	< 0.8	< 5	53	< 0.5	< 0.8	2600	26	7	58	16000	9	2300	510	< 1.5	70	< 1	27	28	35
		5-10 cm (soil)	18026	11000	< 0.8	5	50	< 0.5	< 0.8	3500	29	8	68	16000	11	2500	360	< 1.5	88	< 1	36	30	32
			18027	9700	< 0.8	< 5	53	< 0.5	< 0.8	3200	30	9	82	17000	11	2600	440	< 1.5	90	< 1	33	30	37
		10-20 cm (soil)	18028	15000	< 0.8	6	51	< 0.5	< 0.8	4000	37	10	140	17000	19	2900	270	< 1.5	140	1	46	34	40
			18029	16000	< 0.8	7	61	< 0.5	< 0.8	4100	42	11	120	19000	18	3200	270	< 1.5	140	1	46	36	39
Byal Canadian Legion Branch 546 Playground,279 Ash St.																							
5030854 Green Space	A	0-5 cm (soil)	17982	12000	< 0.8	8	60	< 0.5	< 0.8	5800	35	14	180	21000	47	3900	200	< 1.5	250	1	40	37	62
			17983	12000	< 0.8	8	60	< 0.5	< 0.8	6000	34	14	180	20000	50	3900	200	< 1.5	260	2	38	35	64
		5-10 cm (soil)	17984	14000	< 0.8	8	59	< 0.5	< 0.8	4400	34	10	110	19000	22	3500	220	< 1.5	140	< 1	40	37	41
			17985	12000	< 0.8	8	57	< 0.5	< 0.8	4800	32	9	98	17000	19	3700	190	< 1.5	120	< 1	37	36	38
		10-20 cm (soil)	17986	13000	< 0.8	9	75	< 0.5	< 0.8	4400	38	11	120	20000	21	3900	250	< 1.5	160	< 1	39	37	45
			17987	17000	< 0.8	8	110	< 0.5	< 0.8	4700	46	12	120	24000	26	5400	300	< 1.5	160	< 1	47	45	51
5030855 Green Space	B	0-5 cm (soil)	17988	11000	< 0.8	< 5	45	< 0.5	< 0.8	3500	29	8	45	16000	9	3000	210	< 1.5	59	< 1	38	32	32
			17989	15000	< 0.8	< 5	58	< 0.5	< 0.8	5400	34	9	43	19000	9	3700	260	< 1.5	60	< 1	48	37	35
		5-10 cm (soil)	17990	13000	< 0.8	< 5	53	< 0.5	< 0.8	4000	32	8	33	18000	7	3200	220	< 1.5	44	< 1	44	37	27
			17991	15000	< 0.8	< 5	64	< 0.5	< 0.8	4800	35	8	33	18000	8	3400	230	< 1.5	43	< 1	48	39	28
		10-20 cm (soil)	17992	18000	< 0.8	< 5	76	< 0.5	< 0.8	4900	39	9	46	22000	14	4000	280	< 1.5	60	< 1	51	40	34
			17993	18000	< 0.8	< 5	83	< 0.5	< 0.8	4900	40	9	38	22000	10	5000	300	< 1.5	51	< 1	53	45	33
5030856 Play Structure	C	0-5 cm (sand)	17994	9600	< 0.8	< 5	32	< 0.5	< 0.8	4200	34	9	34	19000	6	5100	200	< 1.5	35	< 1	38	35	25
			17995	8200	< 0.8	< 5	29	< 0.5	< 0.8	3700	34	9	36	17000	5	4300	210	< 1.5	40	< 1	31	32	26

Table F (results in bold)	NG	1.0	17	210	1.2	1.0	NG	71	21	85	NG	120	NG	NG	2.5	43	1.9	NG	91	160
Table A (results in bold and underlined)	NG	13	20	750	1.2	12.0	NG	750	40	225	NG	200	NG	NG	40	150	10	NG	200	600
< - less than the Method Detection Limit. NG - no guideline. All results are in µg/g dry wt.																				

Table C4.2: Inner Community Parks																								
Station	Map ID	Soil Depth	Sample No.	Al	Sb	As	Ba	Be	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Mo	Ni	Se	Sr	V	Zn	
5030857 Play Structure	D	0-5 cm (sand)	17996	8400	< 0.8	< 5	31	< 0.5	< 0.8	3600	34	9	29	18000	4	4500	220	< 1.5	31	< 1	32	36	27	
			17997	7300	< 0.8	< 5	25	< 0.5	< 0.8	3000	32	9	27	16000	4	4400	210	< 1.5	32	< 1	26	31	26	
5030858 Play Structure	E	0-5 cm (sand)	17998	7100	< 0.8	< 5	26	< 0.5	< 0.8	2700	32	10	28	16000	4	4300	200	< 1.5	30	< 1	24	34	25	
			17999	7300	< 0.8	< 5	25	< 0.5	< 0.8	2900	33	9	29	17000	4	4400	210	< 1.5	33	< 1	24	34	26	
V.L.A. Playground,26 Deil St.																								
5030958 Play Structure	A	0-5 cm (sand)	19466	4200	< 0.8	< 5	20	< 0.5	< 0.8	1900	18	5	18	10000	3	2400	130	< 1.5	21	< 1	15	22	18	
			19467	4200	< 0.8	< 5	19	< 0.5	< 0.8	1900	18	5	20	9800	3	2400	130	< 1.5	22	< 1	16	20	19	
5030959 Green Space	B	0-5 cm (soil)	19468	9200	< 0.8	< 5	46	< 0.5	< 0.8	5500	30	10	57	15000	8	3400	210	< 1.5	64	< 1	37	30	32	
			19469	7000	< 0.8	< 5	28	< 0.5	< 0.8	7300	25	6	32	12000	6	3700	180	< 1.5	44	< 1	33	25	20	
		5-10 cm (soil)	19470	8300	< 0.8	< 5	40	< 0.5	< 0.8	5300	28	10	54	15000	8	3500	220	< 1.5	52	< 1	33	31	28	
			19471	6200	< 0.8	< 5	23	< 0.5	< 0.8	7700	24	6	20	11000	5	3800	180	< 1.5	61	< 1	30	25	18	
		10-20 cm (soil)	19472	7700	< 0.8	< 5	37	< 0.5	< 0.8	4300	28	10	54	15000	6	3700	210	< 1.5	48	< 1	28	31	28	
			19473	5600	< 0.8	< 5	20	< 0.5	< 0.8	10000	23	5	18	11000	4	4700	170	< 1.5	23	< 1	25	23	17	
Sudbury East																								
Adamsdale Playground,270 Second Ave.																								
5030693 Play Structure	A	0-5 cm (sand)	19242	7600	< 0.8	< 5	32	< 0.5	< 0.8	2900	27	6	25	13000	4	2800	170	< 1.5	36	< 1	28	29	18	
			19243	7900	< 0.8	< 5	35	< 0.5	< 0.8	3200	28	6	23	13000	4	2900	170	< 1.5	32	< 1	32	29	19	
5030694 Baseball Infield	B	0-5 cm (gravel)	19244	8200	< 0.8	< 5	50	< 0.5	< 0.8	150000	21	5	22	10000	7	22000	150	2.4	37	< 1	340	15	14	
			19245	8200	< 0.8	< 5	51	< 0.5	< 0.8	150000	22	5	22	10000	6	21000	140	2.2	34	< 1	330	15	14	
5030695 Baseball Outfield	C	0-5 cm (soil)	19246	9700	< 0.8	< 5	34	< 0.5	< 0.8	5900	25	7	68	13000	17	3300	180	< 1.5	81	< 1	37	24	25	
			19247	7700	< 0.8	< 5	26	< 0.5	< 0.8	4700	22	6	60	11000	15	2700	150	< 1.5	68	< 1	30	22	19	
		5-10 cm (soil)	19248	7800	< 0.8	< 5	25	< 0.5	< 0.8	3000	21	4	40	10000	9	1900	130	< 1.5	51	< 1	24	20	17	
			19249	7800	< 0.8	< 5	23	< 0.5	< 0.8	2700	23	4	39	11000	9	1800	130	< 1.5	46	< 1	26	23	15	
		10-20 cm (soil)	19250	8600	< 0.8	< 5	26	< 0.5	< 0.8	3000	23	4	35	9100	10	1700	110	< 1.5	50	< 1	30	22	15	
			19251	6800	< 0.8	< 5	23	< 0.5	< 0.8	2100	19	4	25	8300	8	1500	100	< 1.5	42	< 1	23	19	11	
5030696 Baseball Infield	D	0-5 cm (gravel)	19252	6600	< 0.8	< 5	43	< 0.5	< 0.8	76000	20	7	27	11000	7	15000	140	3.1	38	< 1	270	16	18	
			19253	7000	< 0.8	< 5	43	< 0.5	< 0.8	78000	18	7	28	11000	7	15000	140	3.2	40	< 1	290	16	17	
5030697 Baseball Outfield	E	0-5 cm (soil)	19254	8200	< 0.8	< 5	26	< 0.5	< 0.8	5700	21	7	77	11000	24	3200	130	< 1.5	91	< 1	31	22	22	
			19255	6900	< 0.8	< 5	26	< 0.5	< 0.8	11000	17	6	65	9600	21	6700	110	< 1.5	73	< 1	45	17	22	
		5-10 cm (soil)	19256	8200	< 0.8	< 5	20	< 0.5	< 0.8	2200	20	4	41	10000	10	1600	100	< 1.5	51	< 1	23	21	15	
			19257	8200	< 0.8	< 5	22	< 0.5	< 0.8	3100	22	5	42	10000	10	2100	110	< 1.5	53	< 1	28	22	16	
		10-20 cm (soil)	19258	7500	< 0.8	< 5	27	< 0.5	< 0.8	2000	20	5	42	10000	9	1600	120	< 1.5	58	< 1	26	22	14	
			19259	8100	< 0.8	< 5	29	< 0.5	< 0.8	2100	21	5	42	10000	9	1600	120	< 1.5	61	< 1	29	23	14	
Bellevue Avenue Park,Bellevue Ave.																								
5030686 Play Structure	A	0-5 cm (sand)	19220	6800	< 0.8	< 5	26	< 0.5	< 0.8	2600	27	7	26	15000	4	3000	170	< 1.5	28	< 1	26	30	29	
Table F (results in bold)				NG	1.0	17	210	1.2	1.0	NG	71	21	85	NG	120	NG	NG	2.5	43	1.9	NG	91	160	
Table A (results in bold and underlined)				NG	13	20	750	1.2	12.0	NG	750	40	225	NG	200	NG	NG	40	150	10	NG	200	600	
< - less than the Method Detection Limit. NG - no guideline. All results are in µg/g dry wt.																								

Table C4.2: Inner Community Parks

Station	Map ID	Soil Depth	Sample No.	Al	Sb	As	Ba	Be	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Mo	Ni	Se	Sr	V	Zn
			19221	7900	< 0.8	< 5	34	< 0.5	< 0.8	3100	27	11	28	16000	7	3100	180	< 1.5	41	< 1	30	31	32
Camp Sudaca,527 Moonlight Beach &																							
5030716 Green Space	A	0-5 cm (soil)	19338	12000	< 0.8	< 5	50	< 0.5	< 0.8	4600	32	8	49	15000	16	3000	250	< 1.5	57	< 1	40	30	36
			19339	12000	< 0.8	< 5	46	< 0.5	< 0.8	4900	32	8	35	15000	13	2900	260	< 1.5	64	< 1	43	30	34
		5-10 cm (soil)	19340	12000	< 0.8	< 5	45	< 0.5	< 0.8	4000	32	9	43	15000	16	2800	220	< 1.5	64	< 1	39	30	32
			19341	12000	< 0.8	< 5	49	< 0.5	< 0.8	4300	32	10	41	15000	14	3000	280	< 1.5	66	< 1	40	31	32
		10-20 cm (soil)	19342	9100	< 0.8	< 5	34	< 0.5	< 0.8	3400	27	8	34	14000	10	3100	200	< 1.5	53	< 1	30	27	30
			19343	9400	< 0.8	< 5	35	< 0.5	< 0.8	3100	27	11	54	14000	19	2700	240	< 1.5	80	< 1	27	27	33
5030717 Green Space	B	0-5 cm (soil)	19344	10000	< 0.8	< 5	45	< 0.5	< 0.8	5200	27	12	95	13000	15	3500	250	< 1.5	150	< 1	33	26	36
			19345	10000	< 0.8	< 5	46	< 0.5	< 0.8	4200	27	14	95	13000	13	3200	230	< 1.5	140	< 1	28	26	34
		5-10 cm (soil)	19346	10000	< 0.8	< 5	49	< 0.5	< 0.8	2800	29	9	46	14000	6	2800	210	< 1.5	61	< 1	32	27	27
			19347	10000	< 0.8	< 5	50	< 0.5	< 0.8	2900	32	8	25	13000	5	2700	200	< 1.5	47	< 1	37	29	27
		10-20 cm (soil)	19348	13000	< 0.8	< 5	64	< 0.5	< 0.8	3100	37	7	23	15000	5	3200	210	< 1.5	34	< 1	42	33	28
			19349	12000	< 0.8	< 5	65	< 0.5	< 0.8	2900	35	9	35	16000	8	2900	230	< 1.5	57	< 1	36	33	32
5030718 Beach	C	0-5 cm (sand)	19326	4800	< 0.8	< 5	27	< 0.5	< 0.8	2200	23	8	22	14000	4	3200	230	< 1.5	37	< 1	13	34	17
			19327	4900	< 0.8	< 5	23	< 0.5	< 0.8	2600	25	8	21	14000	4	3300	240	< 1.5	35	< 1	17	32	17
		5-10 cm (sand)	19328	5400	< 0.8	< 5	26	< 0.5	< 0.8	2500	25	9	28	14000	4	3400	250	< 1.5	37	< 1	19	28	18
			19329	5200	< 0.8	< 5	24	< 0.5	< 0.8	2600	25	9	21	15000	4	3300	250	< 1.5	33	< 1	18	36	18
		10-20 cm (sand)	19330	5200	< 0.8	< 5	25	< 0.5	< 0.8	2300	24	9	24	15000	4	3300	250	< 1.5	40	< 1	17	32	18
			19331	5200	< 0.8	< 5	24	< 0.5	< 0.8	2200	23	9	22	13000	4	3200	250	< 1.5	35	< 1	17	27	16
5030719 Beach	D	0-5 cm (sand)	19332	7200	< 0.8	< 5	39	< 0.5	< 0.8	4300	24	10	59	12000	10	3100	230	< 1.5	92	< 1	29	23	30
			19333	5800	< 0.8	< 5	32	< 0.5	< 0.8	4100	22	9	51	11000	8	2900	200	< 1.5	89	< 1	23	21	24
		5-10 cm (sand)	19334	6000	< 0.8	< 5	27	< 0.5	< 0.8	2200	22	8	46	12000	8	2700	140	< 1.5	66	< 1	19	22	19
			19335	7400	< 0.8	< 5	33	< 0.5	< 0.8	2800	25	9	61	13000	10	3000	170	< 1.5	89	< 1	25	24	22
		10-20 cm (sand)	19336	12000	< 0.8	8	71	< 0.5	< 0.8	3200	32	11	120	15000	21	3000	180	< 1.5	170	< 1	34	30	25
			19337	12000	< 0.8	7	74	< 0.5	< 0.8	3300	32	9	130	15000	18	2900	170	< 1.5	75	< 1	34	30	26
Carmichael Community Centre & Arena,Bellevue Ave.																							
5030687 Play Structure	A	0-5 cm (sand)	19222	7300	< 0.8	< 5	25	< 0.5	< 0.8	3000	27	7	30	16000	4	3400	170	< 1.5	34	< 1	28	32	21
		19223	9900	< 0.8	< 5	40	< 0.5	< 0.8	3700	30	8	28	18000	4	3500	190	< 1.5	30	< 1	35	35	22	
5030688 Baseball Infield	B	0-5 cm (gravel)	19224	8700	< 0.8	< 5	37	< 0.5	< 0.8	45000	23	6	22	13000	6	9000	160	1.8	30	< 1	130	22	18
		19225	10000	< 0.8	< 5	52	< 0.5	< 0.8	72000	22	8	28	14000	8	15000	160	1.8	47	< 1	190	21	22	

Table F (results in bold)	NG	1.0	17	210	1.2	1.0	NG	71	21	85	NG	120	NG	NG	2.5	43	1.9	NG	91	160
Table A (results in bold and underlined)	NG	13	20	750	1.2	12.0	NG	750	40	225	NG	200	NG	NG	40	150	10	NG	200	600
< - less than the Method Detection Limit. NG - no guideline. All results are in µg/g dry wt.																				

Table C4.2: Inner Community Parks

Station	Map ID	Soil Depth	Sample No.	Al	Sb	As	Ba	Be	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Mo	Ni	Se	Sr	V	Zn
5030689 Baseball Outfield	C	0-5 cm (soil)	19226	9100	< 0.8	< 5	40	< 0.5	< 0.8	6100	23	7	58	11000	14	4300	170	< 1.5	93	< 1	39	25	25
			19227	9500	< 0.8	< 5	38	< 0.5	< 0.8	4100	26	7	62	12000	13	2500	200	< 1.5	83	< 1	36	28	26
		5-10 cm (soil)	19228	9600	< 0.8	< 5	35	< 0.5	< 0.8	3500	25	6	42	12000	11	2500	170	< 1.5	67	< 1	34	28	22
			19229	9200	< 0.8	< 5	33	< 0.5	< 0.8	2900	24	6	36	12000	9	2000	160	< 1.5	54	< 1	32	27	20
		10-20 cm (soil)	19230	8000	< 0.8	< 5	32	< 0.5	< 0.8	2100	21	6	37	10000	9	1800	140	< 1.5	56	< 1	26	24	18
			19231	7700	< 0.8	< 5	33	< 0.5	< 0.8	2900	21	5	34	10000	9	1900	140	< 1.5	60	< 1	27	23	20
5030690 Baseball Infield	D	0-5 cm (gravel)	19232	9200	< 0.8	< 5	56	< 0.5	< 0.8	62000	27	6	25	13000	6	13000	180	1.8	38	< 1	210	23	25
			19233	9200	1.3	< 5	68	< 0.5	< 0.8	52000	28	7	36	14000	6	13000	200	< 1.5	43	< 1	190	26	27
5030691 Baseball Outfield	E	0-5 cm (soil)	19234	8300	< 0.8	< 5	37	< 0.5	< 0.8	6500	24	6	58	11000	11	2900	160	< 1.5	86	< 1	33	24	26
			19235	9100	< 0.8	< 5	41	< 0.5	< 0.8	4900	26	7	59	11000	12	3000	170	< 1.5	91	1	34	25	27
		5-10 cm (soil)	19236	7900	< 0.8	< 5	33	< 0.5	< 0.8	3500	22	5	48	10000	9	2300	130	< 1.5	69	< 1	30	23	22
			19237	8100	< 0.8	< 5	33	< 0.5	< 0.8	3400	23	5	43	11000	8	2400	140	< 1.5	67	1	30	24	22
		10-20 cm (soil)	19238	7800	< 0.8	< 5	36	< 0.5	< 0.8	2300	21	6	40	10000	7	2000	120	< 1.5	69	< 1	25	23	20
			19239	8100	< 0.8	< 5	35	< 0.5	< 0.8	2700	22	5	34	10000	7	2100	130	< 1.5	55	< 1	29	24	21
East End Playground,2765 Real St.																							
5030794 Play Structure	A	0-5 cm (sand)	21455	5100	< 0.8	< 5	19	< 0.5	< 0.8	2400	23	7	13	12000	2	3200	150	< 1.5	21	< 1	17	24	16
			21456	5000	< 0.8	< 5	19	< 0.5	< 0.8	2700	21	6	12	12000	2	3000	150	< 1.5	18	< 1	19	21	16
5030795 Play Structure	B	0-5 cm (sand)	21457	5700	< 0.8	< 5	22	< 0.5	< 0.8	2200	23	8	20	13000	3	3300	160	< 1.5	25	< 1	17	24	19
			21458	5500	< 0.8	< 5	22	< 0.5	< 0.8	2400	23	10	21	13000	4	3400	170	< 1.5	27	< 1	17	26	20
Eyre Playground,Ferndale Ave.																							
5030692 Play Structure	A	0-5 cm (sand)	19240	7100	< 0.8	< 5	26	< 0.5	< 0.8	3700	32	9	25	16000	4	3700	200	< 1.5	28	< 1	30	32	25
			19241	8800	< 0.8	< 5	36	< 0.5	< 0.8	4200	33	8	24	16000	4	3900	210	< 1.5	26	< 1	36	35	26
Grace Playground,Ra St.																							
5030796 Play Structure	A	0-5 cm (sand)	21459	6800	< 0.8	< 5	22	< 0.5	< 0.8	3100	30	12	36	16000	4	4200	190	< 1.5	178	< 1	22	26	21
			21460	6400	< 0.8	< 5	21	< 0.5	< 0.8	2500	28	13	71	15000	3	4000	190	< 1.5	232	< 1	18	24	21
5030797 Green Space	B	0-5 cm (soil)	21461	9200	< 0.8	5	48	< 0.5	< 0.8	4700	30	12	91	15000	19	3800	220	< 1.5	116	< 1	30	25	46
			21462	8300	< 0.8	< 5	40	< 0.5	< 0.8	4300	28	10	64	14000	14	3700	220	< 1.5	93	< 1	28	26	40
		5-10 cm (soil)	21463	12000	< 0.8	< 5	53	< 0.5	< 0.8	5600	36	8	75	16000	10	4400	200	< 1.5	65	< 1	37	13	41
			21464	12000	< 0.8	< 5	54	< 0.5	< 0.8	5200	35	8	74	16000	11	4000	210	< 1.5	75	< 1	37	15	44
		10-20 cm (soil)	21465	12000	< 0.8	8	64	< 0.5	< 0.8	4300	34	9	90	16000	10	3500	190	< 1.5	111	< 1	35	30	35
			21466	15000	< 0.8	8	90	< 0.5	< 0.8	4800	41	13	97	18000	16	4100	210	< 1.5	164	< 1	40	34	42
5030798 Baseball Infield	C	0-5 cm (soil)	21467	8700	< 0.8	< 5	18	< 0.5	< 0.8	240000	18	6	16	9100	8	24000	140	2.1	47	< 1	260	11	23
			21468	9000	< 0.8	< 5	18	< 0.5	< 0.8	250000	17	6	15	9400	9	26000	150	2.5	46	< 1	270	11	23

Table F (results in bold)	NG	1.0	17	210	1.2	1.0	NG	71	21	85	NG	120	NG	NG	2.5	43	1.9	NG	91	160
Table A (results in bold and underlined)	NG	13	20	750	1.2	12.0	NG	750	40	225	NG	200	NG	NG	40	150	10	NG	200	600
< - less than the Method Detection Limit. NG - no guideline. All results are in µg/g dry wt.																				

Table C4.2: Inner Community Parks

Station	Map ID	Soil Depth	Sample No.	Al	Sb	As	Ba	Be	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Mo	Ni	Se	Sr	V	Zn
5030799 Baseball Outfield	D	0-5 cm (soil)	21469	11000	< 0.8	< 5	59	< 0.5	< 0.8	14000	29	10	54	13000	12	8600	190	< 1.5	92	< 1	65	27	44
			21470	10000	< 0.8	< 5	47	< 0.5	< 0.8	5300	33	9	64	15000	16	3700	200	< 1.5	87	< 1	37	29	31
		5-10 cm (soil)	21471	11000	< 0.8	< 5	65	< 0.5	< 0.8	6600	32	10	64	15000	11	5200	180	< 1.5	91	< 1	42	30	38
			21472	8900	< 0.8	< 5	45	< 0.5	< 0.8	3500	30	8	49	14000	8	3200	160	< 1.5	67	< 1	26	28	25
		10-20 cm (soil)	21473	14000	< 0.8	10	79	< 0.5	< 0.8	5300	38	13	160	18000	19	3800	200	< 1.5	209	1	37	30	45
			21474	15000	< 0.8	10	89	< 0.5	< 0.8	5000	41	13	190	19000	22	4200	200	< 1.5	215	1	40	33	50
Lonsdale Playground,811 Lonsdale Ave.																							
5030684 Play Area	A	0-5 cm (gravel)	19216	6800	< 0.8	< 5	24	< 0.5	< 0.8	2500	25	10	110	16000	10	3100	160	< 1.5	75	< 1	23	26	27
			19217	6100	< 0.8	< 5	25	< 0.5	< 0.8	2300	25	17	130	16000	14	3200	160	< 1.5	130	1	18	26	27
5030685 Play Structure	B	0-5 cm (gravel)	19218	5600	< 0.8	< 5	23	< 0.5	< 0.8	2100	23	10	34	16000	5	3100	190	< 1.5	28	< 1	19	34	21
			19219	6200	< 0.8	< 5	25	< 0.5	< 0.8	2400	24	11	39	17000	5	3300	200	< 1.5	33	< 1	23	37	22
Moonlight Beach Ball Park,Moonlight Beach R.																							
5030682 Baseball Outfield	A	0-5 cm (soil)	19888	13000	< 0.8	< 5	52	< 0.5	< 0.8	7800	35	9	52	16000	10	3600	240	< 1.5	104	< 1	45	32	31
			19889	12000	< 0.8	6	54	< 0.5	< 0.8	6500	35	9	55	16000	10	3700	250	< 1.5	87	< 1	42	32	31
		5-10 cm (soil)	19890	16000	< 0.8	6	86	< 0.5	< 0.8	3800	45	12	69	20000	11	4400	300	< 1.5	97	< 1	44	40	40
			19891	17000	< 0.8	8	94	< 0.5	< 0.8	5100	47	14	110	22000	14	5100	330	< 1.5	123	< 1	46	40	40
		10-20 cm (soil)	19892	17000	< 0.8	6	88	< 0.5	< 0.8	3600	47	12	74	22000	11	5100	320	< 1.5	93	< 1	43	40	42
			19893	20000	< 0.8	10	110	< 0.5	< 0.8	3300	53	11	130	26000	15	5800	350	< 1.5	142	< 1	42	43	49
5030683 Baseball Infield	B	0-5 cm (soil)	19894	7600	< 0.8	< 5	34	< 0.5	< 0.8	14000	29	7	23	15000	5	5700	200	< 1.5	29	< 1	67	27	22
			19895	7000	< 0.8	< 5	32	< 0.5	< 0.8	10000	27	7	20	14000	5	4700	200	< 1.5	28	< 1	58	26	20
Moonlight Beach Park,Moonlight Beach R.																							
5030676 Beach	A	0-15 cm (sand)	19732	5100	< 0.8	< 5	24	< 0.5	< 0.8	3000	25	8	23	14000	4	3200	170	< 1.5	31	< 1	19	29	16
			19733	5200	< 0.8	< 5	23	< 0.5	< 0.8	2900	24	8	21	13000	3	3300	170	< 1.5	30	< 1	18	27	16
5030677 Play Structure	B	0-5 cm (sand)	19734	5700	< 0.8	< 5	23	< 0.5	< 0.8	3200	24	6	15	13000	2	3300	170	< 1.5	17	< 1	23	24	16
			19735	6100	< 0.8	< 5	24	< 0.5	< 0.8	3000	28	8	19	14000	3	3400	180	< 1.5	21	< 1	23	29	20
5030678 Play Structure	C	0-15 cm (gravel)	19736	6200	< 0.8	< 5	32	< 0.5	< 0.8	3300	28	10	32	15000	5	3500	210	< 1.5	36	< 1	22	32	20
			19737	6700	< 0.8	< 5	34	< 0.5	< 0.8	3200	27	9	36	14000	6	3400	200	< 1.5	49	< 1	21	27	20
5030679 Green Space	D	0-5 cm (soil)	19738	6900	< 0.8	< 5	31	< 0.5	< 0.8	6200	26	13	56	13000	10	3500	190	< 1.5	97	< 1	24	22	27
			19739	8900	< 0.8	< 5	46	< 0.5	< 0.8	6900	27	14	86	15000	15	3600	220	< 1.5	130	< 1	33	25	38
		5-10 cm (soil)	19740	8700	< 0.8	< 5	40	< 0.5	< 0.8	5500	27	10	67	12000	13	2700	170	< 1.5	120	< 1	34	26	35
			19741	11000	< 0.8	< 5	52	< 0.5	< 0.8	6400	31	8	67	13000	11	2700	200	< 1.5	100	< 1	43	29	30
		10-20 cm (soil)	19742	11000	< 0.8	< 5	60	< 0.5	< 0.8	5900	30	6	57	12000	10	2500	200	< 1.5	76	< 1	42	30	33
			19743	13000	< 0.8	< 5	71	< 0.5	< 0.8	6800	35	9	62	15000	12	2800	310	< 1.5	110	< 1	44	33	32

Table F (results in bold)	NG	1.0	17	210	1.2	1.0	NG	71	21	85	NG	120	NG	NG	2.5	43	1.9	NG	91	160
Table A (results in bold and underlined)	NG	13	20	750	1.2	12.0	NG	750	40	225	NG	200	NG	NG	40	150	10	NG	200	600
< - less than the Method Detection Limit. NG - no guideline. All results are in µg/g dry wt.																				

Table C4.2: Inner Community Parks

Station	Map ID	Soil Depth	Sample No.	Al	Sb	As	Ba	Be	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Mo	Ni	Se	Sr	V	Zn
5030680 Green Space	E	0-5 cm (soil)	19744	12000	< 0.8	< 5	75	< 0.5	< 0.8	6300	40	10	69	13000	16	3900	230	< 1.5	150	< 1	49	35	39
			19745	14000	< 0.8	< 5	73	< 0.5	< 0.8	6800	40	10	79	16000	17	3600	220	< 1.5	140	< 1	47	34	34
		5-10 cm (soil)	19746	12000	< 0.8	8	56	< 0.5	< 0.8	4200	34	8	51	15000	9	3200	190	< 1.5	94	< 1	37	33	27
			19747	12000	< 0.8	< 5	58	< 0.5	< 0.8	3600	34	8	52	15000	9	3300	190	< 1.5	85	< 1	33	31	26
		10-20 cm (soil)	19748	14000	< 0.8	< 5	79	< 0.5	< 0.8	3800	42	10	64	19000	11	4300	240	< 1.5	100	< 1	38	35	34
			19749	15000	< 0.8	< 5	91	< 0.5	< 0.8	3800	42	10	62	19000	10	4400	260	< 1.5	97	< 1	39	36	32
5030681 Green Space (undisturbed)	F	0-5 cm (soil)	19750	8100	< 0.8	36	82	< 0.5	1	2300	22	28	700	20000	62	1100	130	< 1.5	800	3	31	24	39
			19751	8300	< 0.8	28	67	< 0.5	< 0.8	2300	21	19	540	16000	44	1200	140	< 1.5	480	3	31	24	31
		5-10 cm (soil)	19752	13000	< 0.8	10	52	< 0.5	< 0.8	2400	28	9	130	17000	12	2000	130	< 1.5	130	1	32	32	29
			19753	11000	< 0.8	7	40	< 0.5	< 0.8	2400	24	6	71	13000	9	1600	110	< 1.5	74	1	33	28	21
		10-20 cm (soil)	19754	18000	< 0.8	< 5	64	< 0.5	< 0.8	2800	36	12	54	20000	9	2500	140	< 1.5	94	< 1	36	36	39
			19755	13000	< 0.8	< 5	47	< 0.5	< 0.8	2100	30	9	35	16000	6	2300	110	< 1.5	54	< 1	26	31	24
Ridgemount Playground (Sudbury Northeast Lions Club),3088 Claude St.																							
5030791 Play Structure	A	0-5 cm (sand)	21453	4600	< 0.8	< 5	19	< 0.5	< 0.8	2100	24	6	19	14000	4	2900	150	< 1.5	23	< 1	14	30	22
			21454	4900	< 0.8	< 5	18	< 0.5	< 0.8	2100	21	6	16	11000	3	2800	140	< 1.5	20	< 1	17	21	18
5030792 Baseball Infield	B	0-5 cm (gravel)	21445	9100	1.2	6	27	< 0.5	< 0.8	220000	18	5	12	9300	7	22000	150	2.4	42	< 1	260	12	9.7
			21446	8800	< 0.8	5	24	< 0.5	< 0.8	170000	20	5	11	9700	6	18000	160	2	41	< 1	220	14	9.9
5030793 Baseball Outfield	C	0-5 cm (soil)	21447	9200	0.8	10	38	< 0.5	< 0.8	4100	25	5	30	12000	8	2400	150	< 1.5	52	< 1	34	26	16
			21448	9100	< 0.8	16	36	< 0.5	< 0.8	4200	25	6	31	12000	11	2500	160	< 1.5	53	< 1	34	27	18
		5-10 cm (soil)	21449	6700	< 0.8	< 5	25	< 0.5	< 0.8	2400	22	5	22	11000	4	2300	130	< 1.5	35	< 1	21	24	16
			21450	6700	< 0.8	< 5	25	< 0.5	< 0.8	2600	22	6	26	12000	6	2500	140	< 1.5	39	< 1	21	24	22
		10-20 cm (soil)	21451	6100	< 0.8	< 5	30	< 0.5	< 0.8	2500	24	5	26	11000	4	2500	140	< 1.5	30	< 1	22	23	15
			21452	6600	< 0.8	< 5	35	< 0.5	< 0.8	2500	25	7	25	13000	4	3300	180	< 1.5	31	< 1	22	25	18
Sudbury New																							
Cambrian College,Governors R.																							
5030698 Baseball Infield	A	0-5 cm (gravel)	19260	9800	< 0.8	< 5	50	< 0.5	< 0.8	15000	29	5	29	13000	6	7700	203	< 1.5	28	< 1	130	21	24
			19261	9100	< 0.8	< 5	50	< 0.5	< 0.8	19000	25	5	24	14000	6	9600	190	< 1.5	26	< 1	160	24	25
5030699 Baseball Outfield	B	0-5 cm (soil)	19262	11000	< 0.8	< 5	44	< 0.5	< 0.8	4400	28	7	56	15000	14	2600	220	< 1.5	67	< 1	40	30	27
			19263	11000	< 0.8	< 5	37	< 0.5	< 0.8	4100	27	7	49	15000	11	2700	200	< 1.5	62	< 1	36	30	24
		5-10 cm (soil)	19264	11000	< 0.8	< 5	41	< 0.5	< 0.8	3600	28	8	50	15000	7	2900	180	< 1.5	64	< 1	31	31	26
			19265	10000	< 0.8	< 5	36	< 0.5	< 0.8	3200	27	8	45	14000	6	2600	170	< 1.5	58	< 1	27	28	24
		10-20 cm (soil)	19266	9400	< 0.8	< 5	33	< 0.5	< 0.8	2800	26	8	34	13000	4	2600	150	< 1.5	52	< 1	24	27	22
			19267	11000	< 0.8	< 5	39	< 0.5	< 0.8	3200	28	8	45	15000	7	2900	170	< 1.5	59	< 1	29	30	24

Table F (results in bold)	NG	1.0	17	210	1.2	1.0	NG	71	21	85	NG	120	NG	NG	2.5	43	1.9	NG	91	160
Table A (results in bold and underlined)	NG	13	20	750	1.2	12.0	NG	750	40	225	NG	200	NG	NG	40	150	10	NG	200	600
< - less than the Method Detection Limit. NG - no guideline. All results are in µg/g dry wt.																				

Table C4.2: Inner Community Parks

Station	Map ID	Soil Depth	Sample No.	Al	Sb	As	Ba	Be	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Mo	Ni	Se	Sr	V	Zn
5030700 Football Field	C	0-5 cm (soil)	19268	9200	< 0.8	< 5	31	< 0.5	< 0.8	5700	30	7	46	13000	10	3100	200	< 1.5	66	< 1	37	28	28
			19269	9400	< 0.8	< 5	34	< 0.5	< 0.8	6000	31	9	53	13000	16	3300	190	< 1.5	92	< 1	38	28	27
		5-10 cm (soil)	19270	8000	< 0.8	< 5	27	< 0.5	< 0.8	3800	28	6	26	12000	7	2500	200	< 1.5	46	< 1	34	27	20
			19271	8800	< 0.8	< 5	31	< 0.5	< 0.8	4300	30	6	30	13000	8	2700	210	< 1.5	49	< 1	36	29	22
		10-20 cm (soil)	19272	8300	< 0.8	< 5	30	< 0.5	< 0.8	4100	28	6	26	13000	8	2600	220	< 1.5	48	< 1	35	28	20
			19273	7300	< 0.8	< 5	25	< 0.5	< 0.8	3400	25	5	21	11000	6	2200	180	< 1.5	34	< 1	30	26	17
Cedar Park,47 Normandy Crescent																							
5030610 Play Area	A	0-5 cm (sand)	20917	6700	< 0.8	< 5	35	< 0.5	< 0.8	2500	24	5	14	11000	2	3000	150	< 1.5	22	< 1	23	24	16
			20918	6300	< 0.8	< 5	32	< 0.5	< 0.8	2300	25	6	15	10000	2	2800	140	< 1.5	24	< 1	22	22	15
5030611 Play Structure	B	0-5 cm (sand)	20919	7000	< 0.8	< 5	37	< 0.5	< 0.8	3200	25	6	13	11000	3	3100	150	< 1.5	19	< 1	29	22	16
			20920	4800	< 0.8	< 5	18	< 0.5	< 0.8	2700	19	6	13	10000	2	2900	130	< 1.5	20	< 1	16	20	16
5030612 Play Structure	C	0-5 cm (sand)	20921	5600	< 0.8	< 5	24	< 0.5	< 0.8	2600	25	11	27	14000	4	3500	180	< 1.5	29	< 1	18	28	20
			20922	11000	< 0.8	< 5	41	< 0.5	< 0.8	3100	34	9	42	17000	8	4200	210	< 1.5	59	< 1	26	33	30
5030613 Green Space	D	0-5 cm (soil)	20923	10000	2	< 5	45	< 0.5	< 0.8	4900	30	6	43	14000	9	3000	200	< 1.5	64	< 1	40	29	23
			20924	11000	< 0.8	< 5	49	< 0.5	< 0.8	5400	32	8	54	15000	12	3300	230	< 1.5	86	< 1	41	31	25
		5-10 cm (soil)	20925	9900	< 0.8	< 5	47	< 0.5	< 0.8	5300	31	8	35	15000	7	3900	230	< 1.5	48	< 1	42	30	21
			20926	9700	< 0.8	< 5	45	< 0.5	< 0.8	7400	32	8	32	15000	7	4900	220	< 1.5	50	< 1	38	29	20
		10-20 cm (soil)	20927	7400	< 0.8	< 5	37	< 0.5	< 0.8	8600	27	7	29	13000	5	5500	220	< 1.5	43	< 1	30	24	34
			20928	13000	< 0.8	< 5	69	< 0.5	< 0.8	8300	40	8	30	19000	7	5800	260	< 1.5	48	< 1	48	36	23
Don Lita Playground,1024 Brookfield Ave.																							
5030634 Play Structure	A	0-5 cm (sand)	21157	6400	< 0.8	< 5	27	< 0.5	< 0.8	3200	28	9	24	17000	4	3800	200	< 1.5	28	< 1	23	37	23
			21158	6200	< 0.8	< 5	27	< 0.5	< 0.8	3300	28	9	25	16000	4	3800	190	< 1.5	28	< 1	23	35	21
5030635 Play Structure	B	0-5 cm (sand)	21159	5500	< 0.8	< 5	23	< 0.5	< 0.8	2400	27	7	22	15000	3	3300	180	< 1.5	28	< 1	19	32	20
			21160	5200	< 0.8	< 5	23	< 0.5	< 0.8	2500	25	7	16	13000	3	3100	170	< 1.5	28	< 1	20	31	20
Downe Playground,1387 Gemmell St.																							
5030785 Play Structure	A	0-5 cm (sand)	21425	5300	< 0.8	< 5	24	< 0.5	< 0.8	2400	23	10	30	13000	4	3500	170	< 1.5	32	< 1	16	27	21
			21426	7500	< 0.8	< 5	38	< 0.5	< 0.8	3600	33	12	32	17000	5	3600	220	< 1.5	36	< 1	29	44	23
5030786 Play Structure	B	0-5 cm (sand)	21427	6000	< 0.8	< 5	28	< 0.5	< 0.8	2700	24	7	20	12000	3	2900	170	< 1.5	22	< 1	26	27	14
			21428	5600	< 0.8	< 5	26	< 0.5	< 0.8	2700	24	7	17	11000	3	2700	160	< 1.5	23	< 1	27	25	13
5030787 Baseball Infield	C	0-5 cm (gravel)	21429	10000	< 0.8	< 5	58	< 0.5	< 0.8	11000	34	10	28	16000	7	6700	240	< 1.5	45	< 1	92	36	23
			21430	12000	< 0.8	< 5	65	< 0.5	< 0.8	11000	36	9	30	16000	7	7000	230	< 1.5	45	< 1	90	34	22

Table F (results in bold)	NG	1.0	17	210	1.2	1.0	NG	71	21	85	NG	120	NG	NG	2.5	43	1.9	NG	91	160
Table A (results in bold and underlined)	NG	13	20	750	1.2	12.0	NG	750	40	225	NG	200	NG	NG	40	150	10	NG	200	600
< - less than the Method Detection Limit.																				
NG - no guideline.							All results are in µg/g dry wt.													

Table C4.2: Inner Community Parks

Station	Map ID	Soil Depth	Sample No.	Al	Sb	As	Ba	Be	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Mo	Ni	Se	Sr	V	Zn
5030788 Baseball Outfield	D	0-5 cm (soil)	21431	11000	< 0.8	6	51	< 0.5	< 0.8	7700	28	8	89	14000	18	4400	220	< 1.5	115	< 1	53	27	30
			21432	10000	< 0.8	6	45	< 0.5	< 0.8	6500	27	8	99	13000	21	3700	220	< 1.5	127	< 1	38	26	31
		5-10 cm (soil)	21433	10000	< 0.8	6	43	< 0.5	< 0.8	3900	26	7	63	13000	12	2800	160	< 1.5	93	< 1	31	26	24
			21434	9800	< 0.8	6	41	< 0.5	< 0.8	3500	25	6	58	12000	12	2500	160	< 1.5	80	< 1	27	25	23
		10-20 cm (soil)	21435	9800	< 0.8	8	52	< 0.5	< 0.8	3000	31	10	110	15000	12	3200	190	< 1.5	145	< 1	29	28	24
			21436	8100	< 0.8	< 5	40	< 0.5	< 0.8	2800	25	7	63	12000	9	2500	160	< 1.5	94	< 1	25	25	20
Grandview Park,580 Grandview St.																							
5030609 Play Structure	A	0-5 cm (sand)	20915	7400	< 0.8	< 5	42	< 0.5	< 0.8	2700	29	7	27	13000	5	3200	180	< 1.5	29	< 1	26	30	20
			20916	7700	< 0.8	< 5	39	< 0.5	< 0.8	2900	29	9	30	16000	4	3500	210	< 1.5	29	< 1	28	34	22
Lansing Field,1830 Lamothe St.																							
5030619 Soccer Field	A	0-5 cm (soil)	20943	10000	< 0.8	< 5	39	< 0.5	< 0.8	5900	32	7	42	14000	10	3300	230	< 1.5	61	< 1	42	31	27
			20944	11000	< 0.8	< 5	41	< 0.5	< 0.8	7200	32	7	43	15000	10	3200	260	< 1.5	64	< 1	43	31	27
		5-10 cm (soil)	20945	9800	< 0.8	< 5	37	< 0.5	< 0.8	5200	30	8	45	14000	13	3000	210	< 1.5	59	< 1	39	29	27
			20946	10000	1.6	< 5	38	< 0.5	< 0.8	4900	30	7	42	14000	9	2900	200	< 1.5	63	< 1	39	29	25
		10-20 cm (soil)	20947	9700	< 0.8	< 5	30	< 0.5	< 0.8	4700	27	5	25	13000	7	2500	190	< 1.5	40	< 1	38	27	20
			20948	11000	< 0.8	< 5	37	< 0.5	< 0.8	5000	31	7	30	15000	8	2800	230	< 1.5	48	< 1	43	30	23
5030620 Play Structure	B	0-5 cm (sand)	20949	6600	< 0.8	< 5	27	< 0.5	< 0.8	2800	26	10	34	17000	4	3800	200	< 1.5	29	< 1	24	34	19
			20950	6600	< 0.8	< 5	28	< 0.5	< 0.8	2800	27	10	34	17000	4	3600	210	< 1.5	29	< 1	26	36	20
5030621 Baseball Infield	C	0-5 cm (soil)	20951	11000	< 0.8	< 5	42	< 0.5	< 0.8	9400	38	9	37	19000	8	5900	280	< 1.5	45	< 1	55	37	32
			20952	10000	< 0.8	< 5	38	< 0.5	< 0.8	8700	36	8	33	18000	8	5700	270	< 1.5	44	< 1	51	35	30
5030622 Baseball Outfield	D	0-5 cm (soil)	20953	11000	< 0.8	< 5	43	< 0.5	< 0.8	7500	28	7	74	13000	15	3500	250	< 1.5	94	< 1	44	28	27
			20954	12000	< 0.8	< 5	51	< 0.5	< 0.8	8700	32	7	77	15000	16	3600	290	< 1.5	97	1	49	31	29
		5-10 cm (soil)	20955	12000	< 0.8	< 5	45	< 0.5	< 0.8	6300	31	6	52	14000	10	3000	240	< 1.5	69	< 1	49	30	28
			20956	13000	0.8	< 5	51	< 0.5	< 0.8	7700	38	6	40	17000	9	3600	300	< 1.5	58	< 1	52	32	28
		10-20 cm (soil)	20957	10000	< 0.8	< 5	46	< 0.5	< 0.8	5300	29	6	38	15000	6	3300	200	< 1.5	59	< 1	40	29	20
			20958	11000	< 0.8	< 5	46	< 0.5	< 0.8	6300	32	6	34	16000	6	3500	230	< 1.5	50	< 1	42	29	22
Lynwood Playground,Lynwood Dowling																							
5030789 Play Structure	A	0-5 cm (sand)	21437	4800	< 0.8	< 5	21	< 0.5	< 0.8	2200	26	9	27	14000	4	3000	170	< 1.5	33	< 1	14	36	19
			21438	4500	< 0.8	< 5	20	< 0.5	< 0.8	1900	22	7	24	12000	4	2900	160	< 1.5	27	< 1	13	29	17
5030790 Green Space	B	0-5 cm (soil)	21439	7100	< 0.8	< 5	38	< 0.5	< 0.8	2700	24	7	89	12000	14	2500	160	< 1.5	86	< 1	23	24	22
			21440	5600	1.3	27	34	< 0.5	< 0.8	2300	21	9	89	11000	18	2400	160	< 1.5	109	< 1	16	21	21
		5-10 cm (soil)	21441	6500	< 0.8	32	38	< 0.5	< 0.8	2100	23	8	81	11000	15	2200	150	< 1.5	101	< 1	19	23	20
			21442	6000	< 0.8	21	33	< 0.5	< 0.8	2300	20	6	60	10000	10	2000	140	< 1.5	79	< 1	22	22	17
		10-20 cm (soil)	21443	9900	< 0.8	18	48	< 0.5	< 0.8	3900	26	6	40	12000	8	2300	160	< 1.5	66	< 1	44	28	18
			21444	10000	< 0.8	13	53	< 0.5	< 0.8	3800	28	5	38	12000	7	2400	160	< 1.5	58	< 1	44	28	20

Table F (results in bold)	NG	1.0	17	210	1.2	1.0	NG	71	21	85	NG	120	NG	NG	2.5	43	1.9	NG	91	160
Table A (results in bold and underlined)	NG	13	20	750	1.2	12.0	NG	750	40	225	NG	200	NG	NG	40	150	10	NG	200	600
< - less than the Method Detection Limit. NG - no guideline. All results are in µg/g dry wt.																				

Table C4.2: Inner Community Parks

Station	Map ID	Soil Depth	Sample No.	Al	Sb	As	Ba	Be	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Mo	Ni	Se	Sr	V	Zn
Madison Playground,Carling Court																							
5030632 Play Structure	A	0-5 cm (sand)	21150	5600	< 0.8	< 5	25	< 0.5	< 0.8	2500	28	8	31	17000	3	3600	200	< 1.5	25	< 1	18	38	24
			21151	6500	< 0.8	< 5	27	< 0.5	< 0.8	2700	27	10	34	17000	4	3600	210	< 1.5	29	< 1	23	37	24
5030633 Green Space	B	0-5 cm (soil)	21152	11000	< 0.8	< 5	46	< 0.5	< 0.8	6100	28	7	48	14000	11	3200	210	< 1.5	66	< 1	51	29	28
			21153	9600	< 0.8	< 5	43	< 0.5	< 0.8	5500	26	7	60	14000	14	3000	210	< 1.5	81	< 1	45	27	30
		5-10 cm (soil)	21154	11000	< 0.8	< 5	43	< 0.5	< 0.8	4700	27	6	47	14000	10	2200	210	< 1.5	56	< 1	44	28	28
			21155	10000	< 0.8	< 5	38	< 0.5	< 0.8	4400	26	4	38	13000	7	2100	200	< 1.5	40	< 1	43	28	28
		10-15 cm (soil)	21156	9100	< 0.8	< 5	36	< 0.5	< 0.8	3700	24	7	52	13000	13	2300	160	< 1.5	60	< 1	33	25	27
McLean Playground,345 McLean Ave.																							
5030607 Play Structure	A	0-5 cm (sand)	20907	6000	< 0.8	7	28	< 0.5	< 0.8	2300	26	10	44	15000	4	3600	200	< 1.5	55	< 1	19	32	21
			20908	6700	< 0.8	< 5	30	< 0.5	< 0.8	2700	29	11	53	16000	5	3700	210	< 1.5	91	< 1	22	36	24
5030608 Green Space	B	0-5 cm (soil)	20909	11000	< 0.8	5	54	< 0.5	< 0.8	4600	35	14	100	18000	16	4800	240	< 1.5	130	< 1	34	34	40
			20910	9900	< 0.8	< 5	50	< 0.5	< 0.8	4300	33	13	110	18000	17	4900	240	< 1.5	120	< 1	32	31	38
		5-10 cm (soil)	20911	9700	< 0.8	6	43	< 0.5	< 0.8	2800	33	12	92	18000	14	3900	230	< 1.5	110	< 1	26	32	38
			20912	9600	< 0.8	< 5	44	< 0.5	< 0.8	2800	33	11	66	18000	10	4300	230	< 1.5	70	< 1	25	31	32
		10-20 cm (soil)	20913	11000	< 0.8	< 5	48	< 0.5	< 0.8	3200	37	9	59	18000	9	3900	230	< 1.5	80	< 1	30	35	34
			20914	5200	< 0.8	< 5	22	< 0.5	< 0.8	2300	23	8	22	13000	3	3300	170	< 1.5	23	< 1	19	28	19
Place Martubise Playground,432 Place Martubise																							
5030628 Green Space	A	0-5 cm (soil)	20977	9300	< 0.8	< 5	66	< 0.5	< 0.8	4500	35	10	76	17000	21	3900	210	< 1.5	73	< 1	38	33	50
			20978	8200	< 0.8	< 5	38	< 0.5	< 0.8	4000	30	8	56	14000	12	3400	190	< 1.5	60	< 1	34	29	37
		5-10 cm (soil)	20979	7200	< 0.8	< 5	34	< 0.5	< 0.8	3700	27	7	44	13000	15	3100	160	< 1.5	42	< 1	30	26	30
			20980	7100	1.6	< 5	31	< 0.5	< 0.8	4500	25	5	26	13000	4	2800	150	< 1.5	24	< 1	35	27	19
		10-20 cm (soil)	20981	8000	< 0.8	5	38	< 0.5	< 0.8	4900	26	6	57	14000	16	2900	150	< 1.5	49	< 1	37	27	28
			20982	6200	< 0.8	< 5	34	< 0.5	< 0.8	4000	23	6	28	12000	6	3100	150	< 1.5	29	< 1	23	24	19
5030629 Play Structure	B	0-5 cm (sand)	20983	5100	< 0.8	< 5	21	< 0.5	< 0.8	2900	24	8	20	15000	4	3300	180	< 1.5	24	< 1	18	36	22
			20984	5200	< 0.8	5	23	< 0.5	< 0.8	3000	26	8	24	15000	4	3200	180	< 1.5	25	< 1	20	33	23
Edfern Park,Edfern St.																							
5030617 Green Space	A	0-5 cm (soil)	20935	16000	< 0.8	7	86	< 0.5	< 0.8	5900	40	15	150	19000	22	4100	240	< 1.5	250	< 1	43	36	37
			20936	14000	2.6	8	74	< 0.5	< 0.8	6000	36	14	160	17000	24	4100	220	< 1.5	250	< 1	41	34	35
		5-10 cm (soil)	20937	14000	< 0.8	6	62	< 0.5	< 0.8	4300	34	7	72	16000	9	2900	150	< 1.5	110	< 1	42	32	24
			20938	10000	< 0.8	6	43	< 0.5	< 0.8	3300	26	8	81	13000	12	2500	130	< 1.5	140	< 1	29	28	22
		10-20 cm (soil)	20939	11000	< 0.8	5	48	< 0.5	< 0.8	3200	29	7	64	13000	9	2700	140	< 1.5	91	< 1	30	27	23
			20940	9500	< 0.8	< 5	38	< 0.5	< 0.8	2800	26	6	37	13000	6	2300	110	< 1.5	63	< 1	26	27	19
5030618 Play Structure	B	0-5 cm (sand)	20941	4800	< 0.8	< 5	23	< 0.5	< 0.8	2000	21	13	64	12000	3	3200	160	< 1.5	290	< 1	15	26	18
			20942	4700	< 0.8	< 5	18	< 0.5	< 0.8	1800	21	17	42	11000	3	3100	160	< 1.5	480	< 1	12	22	17

Table F (results in bold)	NG	1.0	17	210	1.2	1.0	NG	71	21	85	NG	120	NG	NG	2.5	43	1.9	NG	91	160
Table A (results in bold and underlined)	NG	13	20	750	1.2	12.0	NG	750	40	225	NG	200	NG	NG	40	150	10	NG	200	600
< - less than the Method Detection Limit. NG - no guideline. All results are in µg/g dry wt.																				

Table C4.2: Inner Community Parks

Station	Map ID	Soil Depth	Sample No.	Al	Sb	As	Ba	Be	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Mo	Ni	Se	Sr	V	Zn
Ridgecrest Tot Lot,1347 By Ave.																							
5030614 Play Structure	A	0-5 cm (sand)	20929	4600	1.7	< 5	18	< 0.5	< 0.8	1600	20	7	21	11000	3	3100	150	< 1.5	22	< 1	12	20	15
			20930	4500	1	< 5	20	< 0.5	< 0.8	1800	19	7	17	9900	3	2700	130	< 1.5	22	< 1	15	20	13
5030615 Play Structure	B	0-5 cm (sand)	20931	4700	< 0.8	< 5	18	< 0.5	< 0.8	2600	19	6	15	9900	2	3000	140	< 1.5	20	< 1	16	19	14
			20932	5100	< 0.8	< 5	24	< 0.5	< 0.8	2600	22	6	17	11000	2	3100	150	< 1.5	21	< 1	20	22	15
5030616 Play Structure	C	0-5 cm (sand)	20933	5300	< 0.8	< 5	24	< 0.5	< 0.8	2500	22	6	17	10000	2	2900	150	< 1.5	19	< 1	21	20	14
			20934	4200	< 0.8	< 5	18	< 0.5	< 0.8	2000	18	6	16	10000	6	2600	130	< 1.5	18	< 1	15	22	13
Besmarie Playground,1919 Montfort St.																							
5030630 Play Structure	A	0-5 cm (sand)	20985	6200	< 0.8	< 5	26	< 0.5	< 0.8	2300	26	9	35	16000	4	3700	210	< 1.5	28	< 1	18	34	24
			20986	6500	< 0.8	< 5	28	< 0.5	< 0.8	2600	32	10	34	17000	5	3900	210	< 1.5	32	< 1	20	40	24
5030631 Green Space	B	0-5 cm (soil)	20987	6500	< 0.8	< 5	27	< 0.5	< 0.8	2700	22	8	72	12000	18	2500	130	< 1.5	83	< 1	20	22	37
			20988	6300	< 0.8	< 5	27	< 0.5	< 0.8	2700	22	8	74	12000	20	2500	130	< 1.5	94	< 1	18	23	26
		5-10 cm (soil)	20989	7200	< 0.8	< 5	32	< 0.5	< 0.8	2900	24	7	53	13000	11	2500	150	< 1.5	64	< 1	22	24	46
			10-15 cm (soil)	20990	8200	< 0.8	< 5	39	< 0.5	< 0.8	3200	22	7	29	14000	9	2600	230	< 1.5	46	< 1	18	25
Twin Forks Athletic Field,1475 Gary St.																							
5030623 Play Structure	A	0-5 cm (sand)	20959	6700	< 0.8	< 5	30	< 0.5	< 0.8	2600	30	10	31	17000	3	3800	220	< 1.5	34	< 1	24	42	23
			20960	6400	< 0.8	< 5	30	< 0.5	< 0.8	2500	26	9	32	15000	3	3700	200	< 1.5	30	< 1	23	30	21
5030624 Play Structure	B	0-5 cm (sand)	20961	6000	< 0.8	< 5	26	< 0.5	< 0.8	2500	25	9	27	16000	3	3600	190	< 1.5	26	< 1	20	33	22
			20962	6300	< 0.8	< 5	27	< 0.5	< 0.8	2500	30	9	30	17000	3	3800	220	< 1.5	27	< 1	21	39	23
5030625 Baseball Infield	C	0-5 cm (soil)	20963	6000	< 0.8	< 5	43	< 0.5	< 0.8	19000	21	5	20	11000	4	9000	250	< 1.5	27	< 1	130	23	18
			20964	7000	< 0.8	< 5	54	< 0.5	< 0.8	24000	24	5	23	13000	6	11000	270	< 1.5	32	< 1	170	25	20
5030626 Baseball Outfield	D	0-5 cm (soil)	20965	8800	< 0.8	< 5	31	< 0.5	< 0.8	7100	28	5	36	12000	8	3600	240	< 1.5	50	< 1	46	27	22
			20966	9800	< 0.8	< 5	40	< 0.5	< 0.8	11000	31	6	50	14000	10	4600	350	< 1.5	67	< 1	56	29	26
		5-10 cm (soil)	20967	8100	< 0.8	< 5	28	< 0.5	< 0.8	6800	26	5	27	11000	6	3500	220	< 1.5	39	< 1	41	26	19
			20968	8200	< 0.8	< 5	31	< 0.5	< 0.8	6700	27	5	25	12000	7	3900	220	< 1.5	39	< 1	35	26	20
		10-20 cm (soil)	20969	9500	< 0.8	< 5	34	< 0.5	< 0.8	5800	31	6	21	14000	7	2900	250	< 1.5	37	< 1	37	29	22
			20970	9500	< 0.8	< 5	34	< 0.5	< 0.8	5600	31	6	20	13000	7	2700	240	< 1.5	35	< 1	40	30	22

Table F (results in bold)	NG	1.0	17	210	1.2	1.0	NG	71	21	85	NG	120	NG	NG	2.5	43	1.9	NG	91	160
Table A (results in bold and underlined)	NG	13	20	750	1.2	12.0	NG	750	40	225	NG	200	NG	NG	40	150	10	NG	200	600
< - less than the Method Detection Limit.																				
NG - no guideline.							All results are in µg/g dry wt.													

Table C4.2: Inner Community Parks																								
Station	Map ID	Soil Depth	Sample No.	Al	Sb	As	Ba	Be	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Mo	Ni	Se	Sr	V	Zn	
5030627 Soccer Field	E	0-5 cm (soil)	20971	13000	< 0.8	< 5	53	< 0.5	< 0.8	8900	41	7	52	16000	11	4400	300	< 1.5	66	< 1	50	35	32	
			20972	13000	< 0.8	< 5	55	< 0.5	< 0.8	11000	39	7	69	15000	14	5200	340	< 1.5	82	< 1	50	32	61	
		5-10 cm (soil)	20973	13000	< 0.8	< 5	42	< 0.5	< 0.8	8900	39	6	26	17000	7	4200	250	< 1.5	38	< 1	52	36	24	
			20974	11000	< 0.8	< 5	37	< 0.5	< 0.8	8000	35	5	24	15000	6	3700	220	< 1.5	36	< 1	48	33	22	
		10-20 cm (soil)	20975	13000	< 0.8	< 5	46	< 0.5	< 0.8	12000	41	7	23	18000	7	5800	260	< 1.5	38	< 1	55	36	27	
			20976	13000	< 0.8	< 5	44	< 0.5	< 0.8	10000	39	6	27	17000	7	5000	250	< 1.5	37	< 1	54	35	24	
Westmount Playground,109 Hurling Court																								
5030636 Green Space	A	0-5 cm (soil)	21161	12000	< 0.8	8	42	< 0.5	< 0.8	4800	31	9	46	16000	10	3200	210	< 1.5	67	< 1	36	32	28	
			21162	13000	< 0.8	9	46	< 0.5	< 0.8	4600	32	10	58	17000	10	3200	230	< 1.5	77	< 1	36	34	33	
		5-10 cm (soil)	21163	12000	< 0.8	22	49	< 0.5	< 0.8	5600	30	18	140	15000	18	2900	190	< 1.5	300	1	37	30	30	
			21164	12000	< 0.8	17	46	< 0.5	< 0.8	5700	29	16	140	16000	16	3300	220	< 1.5	270	1	34	30	30	
		10-20 cm (soil)	21165	9400	< 0.8	40	46	< 0.5	< 0.8	4700	24	21	300	14000	21	2400	150	< 1.5	360	1	29	24	24	
			21166	11000	< 0.8	39	49	< 0.5	< 0.8	5600	27	19	270	15000	22	2700	180	< 1.5	360	2	33	28	32	
5030637 Green Space	B	0-5 cm (soil)	21167	12000	< 0.8	11	45	< 0.5	< 0.8	5800	32	12	68	18000	11	3400	240	< 1.5	110	< 1	35	35	36	
			21168	13000	< 0.8	9	50	< 0.5	< 0.8	6200	34	11	65	18000	11	3400	260	< 1.5	100	< 1	38	36	36	
		5-10 cm (soil)	21169	13000	< 0.8	9	60	< 0.5	< 0.8	6600	36	12	71	18000	11	3600	260	< 1.5	94	< 1	41	36	36	
			21170	17000	< 0.8	9	84	< 0.5	< 0.8	7600	41	10	54	20000	11	3900	310	< 1.5	75	< 1	48	42	45	
		10-20 cm (soil)	21171	12000	< 0.8	11	54	< 0.5	< 0.8	6400	32	12	94	17000	12	3400	250	< 1.5	94	< 1	37	33	36	
			21172	14000	< 0.8	11	68	< 0.5	< 0.8	7900	37	11	86	19000	12	4100	280	< 1.5	91	< 1	43	37	39	
Sudbury South																								
Algonquin Park,2646 Algonquin Rd.																								
5030840 Play Structure	A	0-5 cm (sand)	17930	6600	< 0.8	< 5	22	< 0.5	< 0.8	3000	30	8	20	14000	4	3700	190	< 1.5	26	< 1	25	30	20	
			17931	5700	< 0.8	< 5	19	< 0.5	< 0.8	2500	27	7	17	13000	4	3300	170	< 1.5	25	< 1	22	26	17	
5030841 Play Structure	B	0-5 cm (sand)	17932	5900	< 0.8	< 5	20	< 0.5	< 0.8	2700	31	8	18	14000	3	3500	180	< 1.5	28	< 1	24	30	22	
			17933	5700	< 0.8	< 5	20	< 0.5	< 0.8	2600	33	8	19	14000	4	3400	170	< 1.5	29	< 1	22	30	23	
5030842 Baseball Infield	C	0-5 cm (soil)	17934	7900	< 0.8	< 5	46	< 0.5	< 0.8	2800	34	8	50	13000	7	4200	150	< 1.5	59	< 1	22	27	30	
			17935	9300	< 0.8	< 5	47	< 0.5	< 0.8	3000	38	10	48	15000	9	4500	160	< 1.5	63	< 1	26	31	28	
5030843 Baseball Outfield	D	0-5 cm (soil)	17936	9900	< 0.8	< 5	38	< 0.5	< 0.8	4800	35	7	44	14000	9	3400	260	< 1.5	79	< 1	36	31	30	
			17937	9400	< 0.8	< 5	39	< 0.5	< 0.8	4700	35	8	46	13000	12	3400	240	< 1.5	82	1	32	29	30	
		5-10 cm (soil)	17938	11000	< 0.8	< 5	42	< 0.5	< 0.8	6100	40	8	42	15000	12	4000	300	< 1.5	78	1	40	34	30	
			17939	11000	< 0.8	< 5	41	< 0.5	< 0.8	5500	39	9	42	15000	12	3800	280	< 1.5	78	< 1	38	33	30	
		10-20 cm (soil)	17940	13000	< 0.8	< 5	54	< 0.5	< 0.8	7200	47	9	45	17000	12	4300	330	< 1.5	81	< 1	54	41	32	
			17941	13000	< 0.8	< 5	56	< 0.5	< 0.8	7700	46	9	42	17000	12	4300	320	< 1.5	76	< 1	52	38	31	

Table F (results in bold)	NG	1.0	17	210	1.2	1.0	NG	71	21	85	NG	120	NG	NG	2.5	43	1.9	NG	91	160
Table A (results in bold and underlined)	NG	13	20	750	1.2	12.0	NG	750	40	225	NG	200	NG	NG	40	150	10	NG	200	600
< - less than the Method Detection Limit. NG - no guideline. All results are in µg/g dry wt.																				

Table C4.2: Inner Community Parks

Station	Map ID	Soil Depth	Sample No.	Al	Sb	As	Ba	Be	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Mo	Ni	Se	Sr	V	Zn
Copper Street Playground,Copper St.																							
5030955 Green Space	A	0-5 cm (soil)	21751	9300	< 0.8	< 5	29	< 0.5	< 0.8	3100	23	4	41	11000	7	2100	130	< 1.5	47	< 1	29	25	27
			21752	10000	< 0.8	< 5	35	< 0.5	< 0.8	3800	26	5	55	13000	8	2400	160	< 1.5	57	< 1	36	28	28
		5-10 cm (soil)	21753	10000	< 0.8	< 5	36	< 0.5	< 0.8	3200	26	5	27	13000	6	2200	150	< 1.5	34	< 1	31	27	22
			21754	9800	< 0.8	< 5	36	< 0.5	< 0.8	3200	26	5	25	12000	5	2400	160	< 1.5	34	< 1	33	27	20
		10-20 cm (soil)	21755	10000	< 0.8	< 5	41	< 0.5	< 0.8	3300	28	6	21	13000	5	2600	180	< 1.5	34	< 1	34	28	19
			21756	9200	< 0.8	< 5	38	< 0.5	< 0.8	3000	27	6	19	13000	5	2600	160	< 1.5	28	< 1	31	27	17
5030956 Play Structure	B	0-5 cm (sand)	21757	5600	< 0.8	5	23	< 0.5	< 0.8	2500	28	9	47	15000	5	3400	170	< 1.5	40	< 1	19	30	23
			21758	6100	< 0.8	6	24	< 0.5	< 0.8	2700	26	9	43	14000	4	3500	180	< 1.5	37	< 1	23	30	22
5030957 Green Space	C	0-5 cm (soil)	21759	8500	< 0.8	5	26	< 0.5	< 0.8	3700	22	4	30	9100	8	1800	120	< 1.5	44	< 1	32	23	26
			21760	11000	< 0.8	5	34	< 0.5	< 0.8	5100	28	4	34	11000	9	2200	150	< 1.5	45	< 1	43	28	31
		5-10 cm (soil)	21761	9300	< 0.8	< 5	31	< 0.5	< 0.8	4200	23	3	23	9300	7	1800	120	< 1.5	31	< 1	40	25	15
			21762	9900	< 0.8	< 5	32	< 0.5	< 0.8	4100	24	4	23	10000	7	1900	130	< 1.5	34	< 1	39	27	16
		10-20 cm (soil)	21763	13000	< 0.8	< 5	64	< 0.5	< 0.8	4900	33	5	21	13000	6	3000	200	< 1.5	32	< 1	48	31	19
			21764	11000	< 0.8	< 5	57	< 0.5	< 0.8	4900	33	6	23	14000	5	3400	210	< 1.5	32	< 1	47	32	21
Lake Laurentian Conservation Area,South Bay B.																							
5030949 Native	A	0-5 cm (soil)	21719	9100	4.3	24	84	< 0.5	1.4	27000	25	33	560	18000	61	2300	410	< 1.5	750	4	47	24	60
			21720	12000	< 0.8	24	100	< 0.5	1.6	15000	32	34	550	20000	61	2700	570	< 1.5	730	4	50	31	64
		5-10 cm (soil)	21721	17000	< 0.8	7	100	< 0.5	< 0.8	4400	42	8	63	15000	9	3300	310	< 1.5	81	< 1	56	37	42
			21722	20000	1.6	< 5	120	< 0.5	< 0.8	4400	48	8	41	18000	7	4000	300	< 1.5	68	< 1	57	42	48
		10-20 cm (soil)	21723	20000	1	< 5	110	< 0.5	< 0.8	4200	49	8	28	19000	7	4500	280	< 1.5	52	< 1	54	41	44
			21724	25000	1.4	< 5	140	< 0.5	< 0.8	4100	61	10	23	23000	8	6300	300	< 1.5	57	< 1	55	49	48
5030950 Native	B	0-5 cm (soil)	21725	15000	0.9	25	81	< 0.5	< 0.8	2500	35	18	290	20000	31	2000	140	< 1.5	380	2	36	36	38
			21726	13000	3.2	22	71	< 0.5	< 0.8	2200	31	19	280	17000	30	1500	150	< 1.5	400	2	33	34	33
		5-10 cm (soil)	21727	14000	< 0.8	8	47	< 0.5	< 0.8	2100	29	15	99	16000	15	1900	160	< 1.5	130	1	32	32	39
			21728	16000	< 0.8	6	45	< 0.5	< 0.8	2200	32	14	68	17000	12	2000	160	< 1.5	82	1	30	35	35
		10-20 cm (soil)	21729	14000	< 0.8	< 5	46	< 0.5	< 0.8	1700	32	12	52	16000	7	2500	130	< 1.5	52	< 1	25	30	33
			21730	18000	< 0.8	< 5	49	< 0.5	< 0.8	2300	36	13	110	19000	12	2900	130	< 1.5	53	1	29	37	71
5030951 Native	C	0-5 cm (soil)	21731	10000	< 0.8	10	69	< 0.5	< 0.8	2300	28	7	78	14000	8	2400	230	< 1.5	110	1	29	27	62
			21732	5200	< 0.8	21	72	< 0.5	0.9	1700	19	23	460	14000	42	1400	310	< 1.5	545	2	18	17	51
		5-10 cm (soil)	21733	7900	< 0.8	23	95	< 0.5	1	2500	24	28	510	16000	47	1900	390	< 1.5	585	3	28	22	61
			21734	6600	< 0.8	7	45	< 0.5	< 0.8	1200	20	5	64	10000	7	1500	120	< 1.5	80	< 1	16	20	38
		10-20 cm (soil)	21735	12000	< 0.8	< 5	57	< 0.5	< 0.8	2500	32	6	22	16000	5	3100	180	< 1.5	61	< 1	33	29	60
			21736	10000	< 0.8	< 5	48	< 0.5	< 0.8	1900	28	6	27	14000	7	2300	150	< 1.5	61	< 1	23	28	54
5030952 Native	D	0-5 cm (soil)	21737	11000	< 0.8	6	71	< 0.5	< 0.8	2800	42	13	120	17000	18	4000	250	< 1.5	154	< 1	25	30	36

Table F (results in bold)	NG	1.0	17	210	1.2	1.0	NG	71	21	85	NG	120	NG	NG	2.5	43	1.9	NG	91	160
Table A (results in bold and underlined)	NG	13	20	750	1.2	12.0	NG	750	40	225	NG	200	NG	NG	40	150	10	NG	200	600
< - less than the Method Detection Limit. NG - no guideline. All results are in µg/g dry wt.																				

Table C4.2: Inner Community Parks

Station	Map ID	Soil Depth	Sample No.	Al	Sb	As	Ba	Be	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Mo	Ni	Se	Sr	V	Zn
			21738	11000	< 0.8	6	76	< 0.5	< 0.8	3800	42	13	120	16000	17	3900	250	< 1.5	164	< 1	31	31	36
		5-10 cm (soil)	21739	13000	< 0.8	< 5	90	< 0.5	< 0.8	3300	47	11	68	19000	9	4800	270	< 1.5	107	< 1	31	36	38
			21740	15000	< 0.8	< 5	110	< 0.5	< 0.8	3600	54	14	60	22000	9	6100	340	< 1.5	103	< 1	32	40	47
		10-20 cm (soil)	21741	14000	< 0.8	< 5	86	< 0.5	< 0.8	3300	44	11	52	18000	8	4500	280	< 1.5	84	< 1	34	35	37
			21742	16000	< 0.8	< 5	110	< 0.5	< 0.8	3900	50	11	60	21000	9	5400	310	< 1.5	104	< 1	39	40	41
Lilly Creek Athletic Field,90 Centennial Dr.																							
5030596 Soccer Field	A	0-5 cm (soil)	19174	8900	< 0.8	< 5	28	< 0.5	< 0.8	6600	24	5	56	11000	10	3200	160	< 1.5	66	< 1	35	25	19
			19175	9200	< 0.8	< 5	32	< 0.5	< 0.8	6300	25	5	65	12000	11	2900	170	< 1.5	73	< 1	37	26	18
		5-10 cm (soil)	19176	9400	< 0.8	< 5	25	< 0.5	< 0.8	3400	24	4	27	11000	5	2100	100	< 1.5	35	< 1	28	25	14
			19177	9900	< 0.8	< 5	30	< 0.5	< 0.8	3100	25	4	20	12000	5	1900	120	< 1.5	30	< 1	30	26	14
		10-20 cm (soil)	19178	9500	< 0.8	< 5	22	< 0.5	< 0.8	3400	25	4	39	12000	6	2000	120	< 1.5	45	< 1	31	25	14
			19179	8900	< 0.8	< 5	27	< 0.5	< 0.8	2500	24	4	26	11000	5	1900	100	< 1.5	30	< 1	22	24	13
5030597 Soccer Field	B	0-5 cm (soil)	19180	9200	< 0.8	< 5	33	< 0.5	< 0.8	5200	25	5	27	12000	6	2400	170	< 1.5	41	< 1	33	27	16
			19181	9900	< 0.8	< 5	33	< 0.5	< 0.8	5000	26	4	26	12000	6	2300	170	< 1.5	36	< 1	37	28	16
		5-10 cm (soil)	19182	12000	< 0.8	< 5	46	< 0.5	< 0.8	7000	32	5	32	14000	8	2600	220	< 1.5	47	< 1	48	33	24
			19183	12000	< 0.8	< 5	46	< 0.5	< 0.8	6500	32	5	30	14000	7	2600	210	< 1.5	43	< 1	48	32	21
		10-20 cm (soil)	19184	12000	< 0.8	< 5	40	< 0.5	< 0.8	4100	29	4	24	13000	8	2000	160	< 1.5	39	< 1	43	30	17
			19185	11000	< 0.8	< 5	35	< 0.5	< 0.8	4500	28	5	22	13000	6	2200	180	< 1.5	42	< 1	42	28	17
5030598 Soccer Field	C	0-5 cm (soil)	19186	11000	< 0.8	< 5	32	< 0.5	< 0.8	4600	28	4	23	13000	6	2300	170	< 1.5	42	< 1	42	29	16
			19187	12000	< 0.8	< 5	39	< 0.5	< 0.8	4600	34	4	21	13000	7	2300	180	< 1.5	39	< 1	44	31	16
		5-10 cm (soil)	19188	8700	< 0.8	< 5	28	< 0.5	< 0.8	2700	24	4	22	11000	7	1900	140	< 1.5	34	< 1	27	24	14
			19189	9400	< 0.8	< 5	31	< 0.5	< 0.8	3100	26	5	23	12000	7	1900	150	< 1.5	36	< 1	31	27	15
5030599 Soccer Field	D	0-5 cm (soil)	19190	8100	< 0.8	< 5	26	< 0.5	< 0.8	6000	21	6	72	10000	12	2500	150	< 1.5	82	1	28	24	20
			19191	8200	< 0.8	< 5	22	< 0.5	< 0.8	1800	22	4	30	11000	7	1600	90	< 1.5	36	< 1	13	22	13
		5-10 cm (soil)	19192	9400	< 0.8	< 5	21	< 0.5	< 0.8	2500	23	4	33	12000	8	1600	110	< 1.5	37	< 1	24	24	20
			19193	8500	< 0.8	< 5	21	< 0.5	< 0.8	3600	21	4	60	11000	10	1900	130	< 1.5	59	< 1	28	23	22
5030600 Soccer Field	E	0-5 cm (soil)	19194	9300	0.8	< 5	31	< 0.5	< 0.8	3900	24	5	35	13000	8	2000	170	< 1.5	46	1	32	27	24
			19195	9200	< 0.8	< 5	23	< 0.5	< 0.8	2800	23	4	32	12000	8	1700	160	< 1.5	39	< 1	28	25	21
		5-10 cm (soil)	19196	9100	< 0.8	7	22	< 0.5	< 0.8	2900	21	4	33	12000	8	1700	150	< 1.5	41	< 1	27	25	20
			19197	9700	< 0.8	< 5	32	< 0.5	< 0.8	4000	24	5	35	14000	8	2100	160	< 1.5	51	< 1	32	27	23

Table F (results in bold)	NG	1.0	17	210	1.2	1.0	NG	71	21	85	NG	120	NG	NG	2.5	43	1.9	NG	91	160
Table A (results in bold and underlined)	NG	13	20	750	1.2	12.0	NG	750	40	225	NG	200	NG	NG	40	150	10	NG	200	600
< - less than the Method Detection Limit. NG - no guideline. All results are in µg/g dry wt.																				

Table C4.2: Inner Community Parks																								
Station	Map ID	Soil Depth	Sample No.	Al	Sb	As	Ba	Be	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Mo	Ni	Se	Sr	V	Zn	
5030601 Soccer Field	F	0-5 cm (soil)	19198	8400	< 0.8	< 5	24	< 0.5	< 0.8	5000	21	5	54	11000	10	2800	130	< 1.5	64	1	34	23	21	
			19199	9100	< 0.8	< 5	24	< 0.5	< 0.8	4000	22	5	44	12000	9	2200	140	< 1.5	54	< 1	33	25	23	
		5-10 cm (soil)	19200	8600	< 0.8	6	22	< 0.5	< 0.8	2300	22	4	26	12000	7	1700	110	< 1.5	35	< 1	22	24	20	
			19201	9100	< 0.8	< 5	23	< 0.5	< 0.8	2500	22	5	27	12000	8	1800	120	< 1.5	39	< 1	27	25	20	
5030602 Baseball Outfield	G	0-5 cm (soil)	19202	11000	< 0.8	< 5	42	< 0.5	< 0.8	12000	29	10	120	16000	18	6800	230	< 1.5	137	2	67	27	39	
			19203	14000	< 0.8	< 5	53	< 0.5	< 0.8	12000	38	10	140	17000	19	7200	240	< 1.5	137	< 1	62	33	43	
		5-10 cm (soil)	19204	14000	< 0.8	< 5	56	< 0.5	< 0.8	8900	39	8	69	19000	13	6600	260	< 1.5	78	< 1	65	36	38	
			19205	15000	< 0.8	< 5	53	< 0.5	< 0.8	6300	42	9	74	19000	12	4100	270	< 1.5	83	< 1	55	37	38	
5030603 Baseball Infield	H	0-5 cm (gravel)	19206	7400	< 0.8	< 5	47	< 0.5	< 0.8	15000	21	6	29	12000	5	9100	160	< 1.5	36	< 1	140	24	19	
			19207	7700	< 0.8	< 5	46	< 0.5	< 0.8	17000	23	6	30	13000	5	9600	180	< 1.5	34	< 1	140	24	20	
5030604 Play Structure	I	0-15 cm (sand)	19208	7300	< 0.8	< 5	31	< 0.5	< 0.8	2600	29	10	37	17000	5	3500	210	< 1.5	31	< 1	27	35	25	
			19209	7200	< 0.8	< 5	28	< 0.5	< 0.8	2400	36	11	36	16000	8	3700	200	< 1.5	36	< 1	24	32	24	
Lockerby Playground,120 Wford R																								
5030605 Green Space	A	0-5 cm (soil)	19210	10000	< 0.8	< 5	30	< 0.5	< 0.8	3400	24	9	43	13000	18	2000	190	< 1.5	101	< 1	34	25	32	
			19211	11000	< 0.8	< 5	31	< 0.5	< 0.8	4200	24	6	45	14000	11	2300	190	< 1.5	61	< 1	36	26	31	
		5-10 cm (soil)	19212	11000	< 0.8	< 5	33	< 0.5	< 0.8	3800	24	5	27	14000	9	1900	210	< 1.5	42	< 1	38	27	21	
			19213	11000	< 0.8	< 5	36	< 0.5	< 0.8	3400	24	6	31	14000	10	2000	200	< 1.5	48	< 1	34	26	22	
5030606 Play Structure	B	0-15 cm (sand)	19214	6300	< 0.8	< 5	17	< 0.5	< 0.8	1900	30	6	22	17000	4	2700	180	< 1.5	28	< 1	20	36	20	
			19215	7000	< 0.8	< 5	18	< 0.5	< 0.8	2100	29	6	20	16000	3	2700	180	< 1.5	24	< 1	22	33	21	
Long Lake Playground,4472 Long Lake R																								
5030835 Green Space	A	0-5 cm (soil)	17912	10000	< 0.8	< 5	38	< 0.5	< 0.8	3400	28	6	61	12000	12	2300	190	< 1.5	70	< 1	34	28	29	
			17913	9600	< 0.8	< 5	37	< 0.5	< 0.8	3300	27	6	57	12000	11	2200	180	< 1.5	69	< 1	35	28	29	
		5-10 cm (soil)	17914	10000	< 0.8	< 5	38	< 0.5	< 0.8	3100	28	6	33	13000	7	2400	190	< 1.5	42	< 1	35	29	21	
			17915	8500	< 0.8	< 5	35	< 0.5	< 0.8	2100	25	5	35	11000	7	2000	170	< 1.5	42	< 1	23	25	20	
		10-20 cm (soil)	17916	9000	< 0.8	< 5	41	< 0.5	< 0.8	3100	28	6	25	13000	5	2700	180	< 1.5	32	< 1	34	30	17	
			17917	9100	< 0.8	< 5	44	< 0.5	< 0.8	3000	29	6	28	13000	5	2600	180	< 1.5	35	< 1	34	29	18	
5030836 Play Structure	B	0-5 cm (sand)	17918	7000	< 0.8	< 5	22	< 0.5	< 0.8	2800	31	7	24	15000	19	4000	190	< 1.5	27	< 1	25	29	33	
			17919	7300	< 0.8	< 5	24	< 0.5	< 0.8	3200	31	8	26	16000	4	4000	200	< 1.5	28	< 1	28	32	33	
5030837 Baseball Infield	C	0-5 cm (soil)	17920	5100	< 0.8	< 5	28	< 0.5	< 0.8	9400	23	5	17	9400	4	5300	160	< 1.5	25	< 1	71	24	15	
			17921	5600	< 0.8	< 5	21	< 0.5	< 0.8	5600	23	4	14	11000	3	3700	160	< 1.5	21	< 1	40	24	14	

Table F (results in bold)	NG	1.0	17	210	1.2	1.0	NG	71	21	85	NG	120	NG	NG	2.5	43	1.9	NG	91	160
Table A (results in bold and underlined)	NG	13	20	750	1.2	12.0	NG	750	40	225	NG	200	NG	NG	40	150	10	NG	200	600
< - less than the Method Detection Limit. NG - no guideline. All results are in µg/g dry wt.																				

Table C4.2: Inner Community Parks

Station	Map ID	Soil Depth	Sample No.	Al	Sb	As	Ba	Be	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Mo	Ni	Se	Sr	V	Zn
5030838 Baseball Outfield	D	0-5 cm (soil)	17922	11000	< 0.8	< 5	41	< 0.5	< 0.8	8800	36	8	86	14000	15	4700	240	< 1.5	117	< 1	46	31	32
			17923	12000	< 0.8	< 5	50	< 0.5	< 0.8	8600	38	8	84	15000	14	4600	230	< 1.5	112	< 1	48	32	32
		5-10 cm (soil)	17924	12000	< 0.8	< 5	46	< 0.5	< 0.8	7200	39	9	77	16000	12	4600	200	< 1.5	107	< 1	46	33	34
			17925	12000	< 0.8	< 5	51	< 0.5	< 0.8	6600	38	8	69	15000	11	4100	200	< 1.5	90	< 1	46	30	30
5030839 Soccer Field	E	0-5 cm (soil)	17926	14000	< 0.8	< 5	56	< 0.5	< 0.8	6700	42	9	78	17000	13	4600	260	< 1.5	103	< 1	43	34	36
			17927	14000	< 0.8	< 5	59	< 0.5	< 0.8	7500	40	9	66	16000	13	4900	230	< 1.5	95	< 1	41	33	33
		5-10 cm (soil)	17928	9600	< 0.8	< 5	36	< 0.5	< 0.8	3500	32	7	38	13000	8	3100	190	< 1.5	60	< 1	31	30	23
			17929	8200	< 0.8	< 5	31	< 0.5	< 0.8	2700	28	7	30	12000	6	2700	160	< 1.5	47	< 1	24	27	20
McFarlane Lake Playground,Pioneer B (* - 5030844 to 5030846 were also sampled separately as part of the Baron Academy private school)																							
5030844* Greenspace	A	0-5 cm (soil)	17942	8100	< 0.8	< 5	24	< 0.5	< 0.8	3400	23	4	27	11000	6	2200	160	< 1.5	39	< 1	29	23	18
			17943	7600	< 0.8	< 5	21	< 0.5	< 0.8	3000	21	4	26	10000	6	2100	140	< 1.5	37	< 1	23	21	16
		5-10 cm (soil)	17944	7100	< 0.8	< 5	26	< 0.5	< 0.8	5400	23	4	16	10000	5	3400	160	< 1.5	26	< 1	26	23	15
			17945	7200	< 0.8	< 5	27	< 0.5	< 0.8	7000	24	4	17	11000	5	4100	180	< 1.5	26	< 1	28	23	15
5030845* Baseball Infield	B	0-5 cm (soil)	17946	6900	< 0.8	< 5	38	< 0.5	< 0.8	12000	27	5	21	12000	5	6900	200	1.6	27	< 1	100	27	19
			17947	7400	< 0.8	< 5	43	< 0.5	< 0.8	13000	28	5	20	13000	5	7400	220	< 1.5	28	< 1	120	28	19
5030846* Baseball Outfield	C	0-5 cm (soil)	17948	11000	< 0.8	< 5	44	< 0.5	< 0.8	6800	36	7	61	14000	11	3600	250	< 1.5	70	< 1	49	32	26
			17949	11000	< 0.8	5	42	< 0.5	< 0.8	6500	38	6	62	14000	11	3700	220	< 1.5	71	< 1	48	32	26
		5-10 cm (soil)	17950	11000	< 0.8	< 5	35	< 0.5	< 0.8	5300	31	6	51	14000	8	2900	190	< 1.5	60	< 1	48	30	22
			17951	11000	< 0.8	< 5	39	< 0.5	< 0.8	5400	34	6	37	14000	6	3000	210	< 1.5	50	< 1	50	33	20
Nepahwin Park,1742 Paris St.																							
5030847 Green Space	A	0-5 cm (soil)	17952	12000	< 0.8	6	60	< 0.5	< 0.8	3800	33	8	81	14000	16	2300	240	< 1.5	121	1	39	31	28
			17953	12000	< 0.8	6	55	< 0.5	< 0.8	6400	35	10	120	14000	26	3200	260	< 1.5	155	1	42	30	36
		5-10 cm (soil)	17954	11000	< 0.8	< 5	40	< 0.5	< 0.8	4500	31	7	75	13000	15	2400	200	< 1.5	85	< 1	40	31	25
			17955	11000	< 0.8	< 5	39	< 0.5	< 0.8	4100	28	6	48	12000	11	2100	210	< 1.5	71	< 1	41	29	23
		10-20 cm (soil)	17956	9900	< 0.8	< 5	43	< 0.5	< 0.8	4900	30	9	120	13000	22	2900	230	< 1.5	135	< 1	33	29	37
			17957	8300	< 0.8	< 5	32	< 0.5	< 0.8	2200	25	7	72	12000	13	1800	190	< 1.5	81	< 1	20	27	26
5030848 Green Space	B	0-5 cm (soil)	17958	8000	< 0.8	< 5	36	< 0.5	< 0.8	5500	25	8	100	11000	19	3100	190	< 1.5	118	< 1	27	26	31
			17959	8500	< 0.8	< 5	39	< 0.5	< 0.8	5700	27	8	110	12000	21	3300	220	< 1.5	123	< 1	27	27	32
		5-10 cm (soil)	17960	9300	< 0.8	< 5	38	< 0.5	< 0.8	4800	26	6	71	12000	14	2800	180	< 1.5	79	< 1	30	27	27
			17961	10000	< 0.8	< 5	41	< 0.5	< 0.8	6300	28	6	68	13000	13	3100	200	< 1.5	80	< 1	36	30	30
		10-20 cm (soil)	17962	11000	< 0.8	< 5	47	< 0.5	< 0.8	4800	29	6	63	14000	16	2500	200	< 1.5	80	< 1	42	32	27
			17963	10000	< 0.8	< 5	44	< 0.5	< 0.8	4600	30	8	71	14000	14	2800	200	< 1.5	110	< 1	34	30	28
5030849 Play Structure	C	0-5 cm (sand)	17964	8200	< 0.8	< 5	36	< 0.5	< 0.8	3700	32	22	210	18000	5	4100	230	< 1.5	680	< 1	31	44	30
			17965	7400	< 0.8	< 5	30	< 0.5	< 0.8	3300	29	16	130	17000	7	4100	220	< 1.5	330	< 1	24	33	27

Table F (results in bold)	NG	1.0	17	210	1.2	1.0	NG	71	21	85	NG	120	NG	NG	2.5	43	1.9	NG	91	160
Table A (results in bold and underlined)	NG	13	20	750	1.2	12.0	NG	750	40	225	NG	200	NG	NG	40	150	10	NG	200	600
< - less than the Method Detection Limit. NG - no guideline. All results are in µg/g dry wt.																				

Table C4.2: Inner Community Parks																								
Station	Map ID	Soil Depth	Sample No.	Al	Sb	As	Ba	Be	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Mo	Ni	Se	Sr	V	Zn	
5030850 Play Structure	D	0-5 cm (sand)	17966	7900	< 0.8	< 5	29	< 0.5	< 0.8	3400	33	15	58	20000	5	4200	220	< 1.5	87	< 1	26	40	24	
			17967	7300	< 0.8	< 5	29	< 0.5	< 0.8	3200	33	17	65	18000	5	3900	200	< 1.5	67	< 1	24	40	25	
5030851 Beach	E	0-5 cm (sand)	17968	8300	< 0.8	< 5	24	< 0.5	< 0.8	3900	32	8	23	18000	4	4100	210	< 1.5	32	< 1	32	36	23	
			17969	7300	< 0.8	< 5	21	< 0.5	< 0.8	3700	30	8	25	17000	5	3900	190	< 1.5	29	< 1	28	34	21	
		5-10 cm (sand)	17970	7700	< 0.8	< 5	24	< 0.5	< 0.8	3800	32	8	29	16000	5	4200	190	< 1.5	33	< 1	30	33	24	
			17971	7500	< 0.8	< 5	24	< 0.5	< 0.8	3500	31	8	28	17000	4	3900	190	< 1.5	32	< 1	29	34	20	
		10-20 cm (sand)	17972	9800	< 0.8	< 5	37	< 0.5	< 0.8	4600	37	9	29	19000	5	4300	230	< 1.5	38	< 1	38	40	26	
			17973	9100	< 0.8	< 5	36	< 0.5	< 0.8	4300	36	9	31	18000	5	3900	220	< 1.5	36	< 1	38	38	21	
Binson Playground,215 Cranbrook Cres.																								
5030708 Baseball Infield	A	0-5 cm (soil)	19296	7200	< 0.8	< 5	40	< 0.5	< 0.8	17000	24	6	47	12000	7	8500	190	< 1.5	66	< 1	130	25	17	
			19297	8700	< 0.8	< 5	51	< 0.5	< 0.8	18000	28	6	42	13000	6	8600	210	< 1.5	56	< 1	140	27	18	
5030709 Baseball Outfield	B	0-5 cm (soil)	19298	11000	< 0.8	< 5	44	< 0.5	< 0.8	27000	28	8	180	14000	29	13000	230	< 1.5	151	< 1	80	25	31	
			19299	12000	< 0.8	< 5	46	< 0.5	< 0.8	19000	29	6	99	13000	10	9300	200	< 1.5	86	< 1	68	26	23	
		5-10 cm (soil)	19300	12000	< 0.8	< 5	45	< 0.5	< 0.8	7100	34	7	69	16000	8	3700	190	< 1.5	74	< 1	49	32	27	
			19301	13000	< 0.8	< 5	54	< 0.5	< 0.8	5500	35	8	47	16000	7	3600	190	< 1.5	68	< 1	46	33	29	
		10-20 cm (soil)	19302	13000	< 0.8	< 5	48	< 0.5	< 0.8	6400	35	7	32	17000	7	3600	210	< 1.5	53	< 1	49	33	26	
			19303	9700	< 0.8	< 5	41	< 0.5	< 0.8	4500	28	8	50	14000	5	3100	180	< 1.5	66	< 1	31	31	26	
5030710 Play Structure	C	0-5 cm (sand)	19304	5500	< 0.8	< 5	36	< 0.5	< 0.8	2400	27	9	45	14000	3	3500	170	< 1.5	38	< 1	27	28	24	
			19305	5600	< 0.8	< 5	33	< 0.5	< 0.8	2300	26	9	34	14000	2	3600	150	< 1.5	37	< 1	23	26	22	

Table F (results in bold)	NG	1.0	17	210	1.2	1.0	NG	71	21	85	NG	120	NG	NG	2.5	43	1.9	NG	91	160
Table A (results in bold and underlined)	NG	13	20	750	1.2	12.0	NG	750	40	225	NG	200	NG	NG	40	150	10	NG	200	600
< - less than the Method Detection Limit. NG - no guideline. All results are in µg/g dry wt.																				

Table C4.3: Sudbury Core Parks																								
Station	Map ID	Soil Depth	Sample No.	Al	Sb	As	Ba	Be	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Mo	Ni	Se	Sr	V	Zn	
Antwerp Playground,459 Antwerp St.																								
5030573 Play Structure	A	0-5 cm (sand)	20527	7100	< 0.8	< 5	23	< 0.5	< 0.8	4100	30	9	35	18000	7	4200	220	< 1.5	38	< 1	33	38	29	
			20528	6800	< 0.8	< 5	22	< 0.5	< 0.8	3900	28	8	31	17000	6	4300	210	< 1.5	32	< 1	29	34	28	
Bell Park,900 Paris Street																								
5030441 Green Space	A	0-5 cm (soil)	20001	14000	1.2	<u>32</u>	120	< 0.5	1.7	4400	37	<u>55</u>	<u>950</u>	30000	101	2900	310	< 1.5	<u>1528</u>	7	47	33	70	
			20002	16000	< 0.8	<u>26</u>	120	< 0.5	1.1	4600	39	<u>33</u>	<u>590</u>	24000	57	3200	290	< 1.5	<u>787</u>	4	52	36	52	
		5-10 cm (soil)	20003	19000	< 0.8	<u>20</u>	130	< 0.5	< 0.8	4100	37	<u>20</u>	<u>360</u>	22000	39	3000	250	< 1.5	<u>423</u>	2	52	36	42	
			20004	19000	< 0.8	<u>16</u>	130	< 0.5	< 0.8	4100	37	11	<u>200</u>	20000	15	3100	240	< 1.5	<u>211</u>	1	53	37	36	
		10-20 cm (soil)	20005	21000	< 0.8	10	110	< 0.5	< 0.8	3900	40	9	<u>61</u>	21000	11	3400	170	< 1.5	<u>114</u>	< 1	52	39	32	
			20006	22000	< 0.8	6	120	< 0.5	< 0.8	4000	43	8	49	21000	8	3600	190	< 1.5	<u>93</u>	< 1	53	41	31	
5030442 Green Space	B	0-5 cm (soil)	20017	8800	< 0.8	< 5	40	< 0.5	< 0.8	5200	34	10	<u>89</u>	16000	17	3200	240	< 1.5	<u>112</u>	1	32	32	45	
			20018	9500	< 0.8	< 5	43	< 0.5	< 0.8	5600	35	8	<u>80</u>	16000	15	3100	230	< 1.5	<u>102</u>	< 1	37	35	40	
		5-10 cm (soil)	20019	12000	< 0.8	< 5	54	< 0.5	< 0.8	6800	38	7	<u>65</u>	17000	12	3200	240	< 1.5	<u>86</u>	< 1	45	41	32	
			20020	9800	< 0.8	< 5	43	< 0.5	< 0.8	6300	34	6	<u>62</u>	15000	10	3200	210	< 1.5	<u>80</u>	< 1	39	39	29	
		10-20 cm (soil)	20021	12000	< 0.8	< 5	51	< 0.5	< 0.8	4900	34	5	47	17000	7	2800	220	< 1.5	<u>52</u>	< 1	44	38	29	
			20022	10000	< 0.8	< 5	42	< 0.5	< 0.8	4500	32	6	46	15000	8	2800	170	< 1.5	<u>63</u>	< 1	41	34	24	
5030443 Green Space	C	0-5 cm (soil)	20023	15000	< 0.8	< 5	74	< 0.5	< 0.8	6300	45	11	<u>83</u>	20000	22	4600	270	< 1.5	<u>104</u>	< 1	51	40	45	
			20024	14000	< 0.8	< 5	74	< 0.5	< 0.8	9400	45	11	<u>160</u>	18000	30	5400	260	< 1.5	<u>188</u>	< 1	48	36	52	
		5-10 cm (soil)	20025	13000	< 0.8	< 5	58	< 0.5	< 0.8	8800	39	12	<u>130</u>	19000	29	5300	250	< 1.5	<u>142</u>	1	45	35	44	
			20026	14000	< 0.8	< 5	62	< 0.5	< 0.8	8300	42	10	<u>72</u>	21000	16	5400	280	< 1.5	<u>87</u>	< 1	49	38	39	
		10-20 cm (soil)	20027	11000	< 0.8	< 5	64	< 0.5	< 0.8	5400	36	9	<u>57</u>	18000	19	4000	190	< 1.5	<u>65</u>	< 1	42	31	30	
			20028	11000	< 0.8	< 5	59	< 0.5	< 0.8	8500	36	11	49	18000	11	6000	230	< 1.5	<u>67</u>	< 1	41	32	31	
5030444 Green Space	D	0-5 cm (soil)	20029	9600	< 0.8	7	42	< 0.5	1.1	8500	30	15	<u>180</u>	15000	40	3500	260	< 1.5	<u>257</u>	2	37	29	47	
			20030	9100	< 0.8	7	44	< 0.5	0.9	7300	30	12	<u>170</u>	14000	42	3300	230	< 1.5	<u>230</u>	2	36	30	48	
		5-10 cm (soil)	20031	9400	< 0.8	7	38	< 0.5	< 0.8	5700	30	7	<u>83</u>	14000	16	2400	210	< 1.5	<u>110</u>	1	36	31	32	
			20032	9800	< 0.8	7	36	< 0.5	< 0.8	5000	30	7	<u>89</u>	14000	22	2300	190	< 1.5	<u>120</u>	< 1	36	31	33	
		10-20 cm (soil)	20033	8900	< 0.8	6	35	< 0.5	< 0.8	4100	28	6	<u>58</u>	13000	12	2100	190	< 1.5	<u>86</u>	< 1	34	28	26	
			20034	9600	< 0.8	8	39	< 0.5	< 0.8	4600	29	7	<u>86</u>	14000	18	2200	180	< 1.5	<u>120</u>	1	34	30	32	
5030445 Green Space	E	0-5 cm (soil)	20035	8900	< 0.8	< 5	37	< 0.5	< 0.8	3900	27	8	<u>93</u>	14000	38	2500	210	< 1.5	<u>120</u>	1	29	27	36	
			20036	9100	< 0.8	< 5	42	< 0.5	< 0.8	4900	29	9	<u>98</u>	13000	21	2900	230	< 1.5	<u>110</u>	1	30	27	36	
		5-10 cm (soil)	20037	9000	< 0.8	5	64	< 0.5	< 0.8	3300	28	9	<u>97</u>	15000	59	2600	190	< 1.5	<u>120</u>	< 1	26	27	46	
			20038	8900	< 0.8	7	35	< 0.5	< 0.8	3100	25	7	<u>86</u>	13000	24	2300	160	< 1.5	<u>90</u>	2	23	25	34	
		10-20 cm (soil)	20039	10000	< 0.8	7	56	< 0.5	< 0.8	3400	29	10	<u>130</u>	16000	39	2700	200	< 1.5	<u>170</u>	1	30	28	43	
			20040	9900	< 0.8	6	48	< 0.5	< 0.8	3700	27	8	<u>86</u>	14000	29	2600	180	< 1.5	<u>100</u>	< 1	30	28	38	
5030446 Green Space	F	0-5 cm (soil)	20041	13000	< 0.8	7	57	< 0.5	< 0.8	6100	35	11	<u>150</u>	17000	22	3600	250	< 1.5	<u>150</u>	1	41	34	38	

Table F (results in bold)	NG	1.0	17	210	1.2	1.0	NG	71	21	85	NG	120	NG	NG	2.5	43	1.9	NG	91	160
Table A (results in bold and underlined)	NG	13	20	750	1.2	12.0	NG	750	40	225	NG	200	NG	NG	40	150	10	NG	200	600
< - less than the Method Detection Limit. NG - no guideline. All results are in µg/g dry wt.																				

Table C4.3: Sudbury Core Parks

Station	Map ID	Soil Depth	Sample No.	Al	Sb	As	Ba	Be	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Mo	Ni	Se	Sr	V	Zn
			20042	14000	< 0.8	5	61	< 0.5	< 0.8	6200	36	10	110	17000	19	3500	240	< 1.5	130	1	41	34	34
		5-10 cm (soil)	20043	15000	< 0.8	5	56	< 0.5	< 0.8	4400	35	8	58	16000	9	3000	190	< 1.5	76	< 1	42	36	27
			20044	14000	< 0.8	6	56	< 0.5	< 0.8	4500	36	8	68	18000	12	3100	200	< 1.5	82	< 1	42	37	29
		10-20 cm (soil)	20045	14000	< 0.8	6	60	< 0.5	< 0.8	3700	36	9	67	17000	20	2800	190	< 1.5	90	< 1	40	36	27
			20046	13000	< 0.8	6	47	< 0.5	< 0.8	4300	33	8	56	17000	18	2700	190	< 1.5	71	< 1	39	37	28
5030447 Play Structure	G	0-15 cm (sand)	20047	8500	< 0.8	< 5	30	< 0.5	< 0.8	4000	33	8	38	20000	9	4200	250	< 1.5	38	< 1	35	41	32
			20048	7900	< 0.8	< 5	27	< 0.5	< 0.8	4100	29	8	29	19000	7	4100	240	< 1.5	31	< 1	33	40	28
5030448 Green Space	H	0-5 cm (soil)	20049	9000	< 0.8	6	44	< 0.5	< 0.8	4100	27	10	140	13000	30	2700	220	< 1.5	200	< 1	30	26	58
			20050	12000	< 0.8	5	59	< 0.5	< 0.8	7200	32	12	140	15000	33	3200	260	< 1.5	220	< 1	44	32	58
		5-10 cm (soil)	20051	12000	< 0.8	7	44	< 0.5	< 0.8	4500	30	7	53	14000	13	2300	180	< 1.5	91	< 1	42	31	34
			20052	12000	< 0.8	5	42	< 0.5	< 0.8	4300	28	6	56	14000	14	2300	170	< 1.5	80	< 1	40	30	30
		10-20 cm (soil)	20053	11000	< 0.8	< 5	44	< 0.5	< 0.8	3600	30	6	38	15000	9	2600	180	< 1.5	62	< 1	37	31	29
			20054	11000	< 0.8	< 5	47	< 0.5	< 0.8	3900	30	6	34	15000	10	2600	190	< 1.5	61	< 1	39	32	27
5030449 Green Space	I	0-5 cm (soil)	20055	10000	< 0.8	< 5	44	< 0.5	< 0.8	5300	35	7	59	14000	12	3100	210	< 1.5	78	< 1	39	32	31
			20056	11000	< 0.8	5	46	< 0.5	< 0.8	5400	31	7	59	14000	12	2900	210	< 1.5	78	< 1	42	31	33
		5-10 cm (soil)	20057	11000	< 0.8	< 5	46	< 0.5	< 0.8	5900	32	6	49	14000	12	2900	210	< 1.5	64	< 1	45	32	28
			20058	13000	< 0.8	< 5	58	< 0.5	< 0.8	5700	35	7	42	14000	12	2800	220	< 1.5	62	< 1	48	34	29
		10-20 cm (soil)	20059	11000	< 0.8	< 5	52	< 0.5	< 0.8	5700	32	6	48	14000	12	2700	210	< 1.5	65	< 1	46	32	30
			20060	12000	< 0.8	< 5	50	< 0.5	< 0.8	4500	33	7	42	15000	12	2500	220	< 1.5	64	< 1	45	32	31
5030450 Green Space	J	0-5 cm (soil)	20061	13000	< 0.8	7	67	< 0.5	< 0.8	7000	42	11	120	17000	22	4100	290	< 1.5	160	1	47	35	43
			20062	14000	< 0.8	7	80	< 0.5	< 0.8	8600	45	11	110	18000	27	4000	280	< 1.5	150	1	49	38	61
		5-10 cm (soil)	20063	15000	< 0.8	8	68	< 0.5	< 0.8	6600	43	12	110	19000	23	3800	260	< 1.5	150	< 1	47	37	37
			20064	11000	< 0.8	7	53	< 0.5	< 0.8	4500	38	10	100	16000	26	3700	250	< 1.5	120	< 1	35	33	41
		10-20 cm (soil)	20065	12000	< 0.8	9	60	< 0.5	< 0.8	5000	37	12	150	18000	23	3200	260	< 1.5	210	1	43	34	40
			20066	12000	< 0.8	5	66	< 0.5	< 0.8	6400	45	14	160	19000	33	4100	280	< 1.5	220	1	41	35	46
5030451 Play Structure	K	0-15 cm (sand)	20067	6800	< 0.8	< 5	29	< 0.5	< 0.8	2800	28	11	39	15000	5	3800	210	< 1.5	41	< 1	26	33	24
			20068	6400	< 0.8	< 5	25	< 0.5	< 0.8	2500	28	10	38	15000	6	3700	190	< 1.5	39	< 1	23	30	24
5030457 Beach	A	0-15 cm (sand)	20007	6000	< 0.8	< 5	20	< 0.5	< 0.8	3400	36	10	45	19000	8	3700	190	< 1.5	78	< 1	25	36	32
			20008	6000	< 0.8	< 5	18	< 0.5	< 0.8	3000	31	10	34	17000	8	4000	190	< 1.5	63	< 1	23	29	32
5030458 Beach	B	0-15 cm (sand)	20009	6500	< 0.8	< 5	16	< 0.5	< 0.8	3200	32	11	28	17000	4	4500	210	< 1.5	58	< 1	25	30	27
			20010	6000	2.2	< 5	14	< 0.5	< 0.8	2900	29	10	27	16000	4	4400	200	< 1.5	55	< 1	22	27	25
5030459 Beach	C	0-10 cm (sand)	20011	6100	< 0.8	< 5	18	< 0.5	< 0.8	2900	34	11	36	18000	4	3800	180	< 1.5	61	< 1	24	34	23
			20012	5800	< 0.8	< 5	18	< 0.5	< 0.8	2600	30	12	43	17000	4	3800	170	< 1.5	77	< 1	20	31	24
5030460 Beach	D	0-15 cm (sand)	20013	7000	< 0.8	< 5	20	< 0.5	< 0.8	3500	32	10	33	19000	5	4400	210	< 1.5	47	< 1	28	36	27
			20014	7300	< 0.8	10	22	< 0.5	< 0.8	3700	32	10	32	18000	4	4300	210	< 1.5	50	< 1	28	33	26

Table F (results in bold)	NG	1.0	17	210	1.2	1.0	NG	71	21	85	NG	120	NG	NG	2.5	43	1.9	NG	91	160
Table A (results in bold and underlined)	NG	13	20	750	1.2	12.0	NG	750	40	225	NG	200	NG	NG	40	150	10	NG	200	600
< - less than the Method Detection Limit. NG - no guideline. All results are in µg/g dry wt.																				

Table C4.3: Sudbury Core Parks

Station	Map ID	Soil Depth	Sample No.	Al	Sb	As	Ba	Be	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Mo	Ni	Se	Sr	V	Zn	
5030461 Beach	Beach E	0-15 cm (sand)	20015	5900	< 0.8	< 5	18	< 0.5	< 0.8	2900	31	8	31	16000	5	3900	180	< 1.5	47	< 1	24	35	26	
			20016	5900	< 0.8	< 5	17	< 0.5	< 0.8	2500	30	8	32	16000	5	4000	180	< 1.5	49	< 1	20	28	26	
5030452 Green Space	L	0-5 cm (soil)	20069	9900	< 0.8	< 5	50	< 0.5	< 0.8	7100	33	10	130	14000	32	3400	230	< 1.5	147	2	41	29	45	
			20070	10000	1.5	< 5	51	< 0.5	< 0.8	8300	34	9	130	15000	23	3500	230	< 1.5	142	2	43	30	44	
		5-10 cm (soil)	20071	11000	< 0.8	< 5	46	< 0.5	< 0.8	6100	36	9	78	16000	16	3500	250	< 1.5	100	< 1	46	34	35	
			20072	12000	< 0.8		5	48	< 0.5	< 0.8	5800	40	9	84	17000	19	3600	260	< 1.5	112	< 1	45	35	37
		10-20 cm (soil)	20073	12000	< 0.8		6	49	< 0.5	< 0.8	5800	37	10	100	17000	22	3400	250	< 1.5	129	< 1	45	34	42
			20074	11000	< 0.8	< 5	54	< 0.5	< 0.8	5300	36	11	140	17000	30	3300	230	< 1.5	176	< 1	40	32	41	
5030453 Play Structure	M	0-10 cm (bark chips)	20075	2700	< 0.8	< 5	21	< 0.5	< 0.8	2100	12	4	43	6200	5	1500	110	< 1.5	40	< 1	14	12	18	
			20076	3400	< 0.8		8	27	< 0.5	< 0.8	2700	14	4	58	7100	6	1400	120	< 1.5	48	< 1	18	13	23
5030454 Play Structure	N	0-10 cm (bark chips)	20077	7600	< 0.8	< 5	35	< 0.5	< 0.8	5600	22	6	64	11000	8	3100	190	< 1.5	57	1.1	20	7	27	
			20078	9800	< 0.8	< 5	61	< 0.5	< 0.8	6500	38	9	100	14000	12	4000	330	< 1.5	83	1.2	33	14	45	
5030455 Green Space	O	0-5 cm (soil)	20079	15000	1.1	41	130	< 0.5	2.5	7400	51	100	1500	46000	142	3400	590	< 1.5	3230	8	50	36	130	
			20080	16000	1.1	45	140	< 0.5	3	8000	50	100	1800	46000	156	3600	690	2.3	3284	11	51	34	140	
		5-10 cm (soil)	20081	24000	< 0.8	17	180	< 0.5	0.9	4800	68	18	330	23000	41	4500	510	< 1.5	398	2	49	46	120	
			20082	20000	< 0.8	< 5	130	< 0.5	1	4900	49	26	470	23000	37	4100	500	< 1.5	594	2	52	40	83	
		10-20 cm (soil)	20083	23000	< 0.8	< 5	130	< 0.5	< 0.8	4500	56	9	45	20000	8	5000	370	< 1.5	82	< 1	51	45	66	
			20084	22000	< 0.8		9	120	< 0.5	< 0.8	4400	50	9	74	20000	8	5000	290	< 1.5	90	< 1	56	44	56
5030456 Green Space	P	0-5 cm (soil)	20085	15000	< 0.8	60	98	< 0.5	0.9	2900	38	48	940	30000	94	2500	280	< 1.5	1215	4	35	32	63	
			20086	11000	0.9	58	110	< 0.5	1.3	3000	34	56	1300	32000	115	2200	370	< 1.5	1513	5	32	29	68	
		5-10 cm (soil)	20087	16000	< 0.8	17	67	< 0.5	< 0.8	1800	36	13	240	18000	18	2600	270	< 1.5	145	1	25	30	44	
			20088	13000	< 0.8	12	62	< 0.5	< 0.8	1900	30	9	140	15000	14	2200	190	< 1.5	103	< 1	27	27	40	
		10-20 cm (soil)	20089	17000	< 0.8	6	59	< 0.5	< 0.8	2000	40	10	78	18000	7	3200	200	< 1.5	55	< 1	28	32	40	
			20090	17000	< 0.8	6	57	< 0.5	< 0.8	2200	39	9	68	17000	7	3000	180	< 1.5	60	< 1	33	32	38	
Brebeuf Park, Corner of Whleen & Notre Dame																								
5030703 Baseball Infield	A	0-5 cm (soil)	19278	8400	< 0.8	< 5	66	< 0.5	< 0.8	131000	23	8	88	12000	11	24000	160	2	135	< 1	270	17	25	
			19279	9700	< 0.8	< 5	67	< 0.5	< 0.8	140000	25	9	79	13000	12	25000	160	2.1	148	< 1	270	18	24	

Table F (results in bold)	NG	1.0	17	210	1.2	1.0	NG	71	21	85	NG	120	NG	NG	2.5	43	1.9	NG	91	160
Table A (results in bold and underlined)	NG	13	20	750	1.2	12.0	NG	750	40	225	NG	200	NG	NG	40	150	10	NG	200	600
< - less than the Method Detection Limit. NG - no guideline. All results are in µg/g dry wt.																				

Table C4.3: Sudbury Core Parks

Station	Map ID	Soil Depth	Sample No.	Al	Sb	As	Ba	Be	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Mo	Ni	Se	Sr	V	Zn
5030704 Baseball Outfield	B	0-5 cm (soil)	19280	12000	< 0.8	< 5	56	< 0.5	< 0.8	12000	31	11	140	14000	27	6400	170	< 1.5	203	< 1	47	28	35
			19281	11000	< 0.8	< 5	53	< 0.5	< 0.8	11000	29	10	160	14000	31	5600	190	< 1.5	205	1	46	27	35
		5-10 cm (soil)	19282	12000	< 0.8	< 5	44	< 0.5	< 0.8	4100	30	8	74	14000	12	2700	170	< 1.5	111	< 1	41	30	27
			19283	13000	< 0.8	< 5	52	< 0.5	< 0.8	4500	31	8	71	14000	11	2700	190	< 1.5	97	< 1	43	31	28
		10-20 cm (soil)	19284	11000	< 0.8	7	54	< 0.5	< 0.8	3500	31	10	110	15000	20	2800	200	< 1.5	191	< 1	36	30	29
			19285	11000	< 0.8	7	55	< 0.5	< 0.8	3400	30	10	110	16000	18	2800	190	< 1.5	167	< 1	35	30	29
5030705 Soccer Field	C	0-5 cm (soil)	19286	11000	< 0.8	< 5	55	< 0.5	< 0.8	7200	28	8	92	14000	20	3400	180	< 1.5	116	< 1	37	28	28
			19287	11000	< 0.8	< 5	40	< 0.5	< 0.8	8000	28	8	99	14000	22	3800	170	< 1.5	117	< 1	37	28	28
		5-10 cm (soil)	19288	12000	< 0.8	< 5	38	< 0.5	< 0.8	3600	30	7	45	16000	9	2800	160	< 1.5	63	< 1	31	30	22
			19289	12000	< 0.8	< 5	38	< 0.5	< 0.8	3600	30	7	43	15000	8	2700	170	< 1.5	62	< 1	33	31	21
		10-20 cm (soil)	19290	11000	< 0.8	< 5	50	< 0.5	< 0.8	3400	30	7	41	15000	10	2900	170	< 1.5	64	< 1	32	30	24
			19291	12000	< 0.8	< 5	47	< 0.5	< 0.8	3100	31	8	36	16000	7	3000	170	< 1.5	53	< 1	30	31	23
Elm Mt Playground, 550 Wte Ave.																							
5030554 Baseball Infield	A	0-5 cm (soil)	20457	9800	< 0.8	< 5	46	< 0.5	< 0.8	12000	37	10	45	18000	9	6800	270	< 1.5	55	1	73	36	34
			20458	9800	< 0.8	< 5	45	< 0.5	< 0.8	12000	36	10	45	19000	9	6800	280	< 1.5	58	< 1	72	36	34
5030555 Baseball Outfield	B	0-5 cm (soil)	20459	10000	< 0.8	8	47	< 0.5	< 0.8	8300	32	17	260	16000	23	5200	180	< 1.5	350	< 1	43	32	83
			20460	9900	< 0.8	7	41	< 0.5	< 0.8	10000	31	15	210	14000	21	5200	210	< 1.5	300	< 1	52	28	52
		5-10 cm (soil)	20461	12000	< 0.8	11	67	< 0.5	< 0.8	4000	38	12	170	18000	14	3900	200	< 1.5	230	1	37	36	36
			20462	11000	< 0.8	8	53	< 0.5	< 0.8	5300	32	13	200	16000	16	3900	170	< 1.5	280	< 1	37	32	40
		10-20 cm (soil)	20463	11000	< 0.8	10	64	< 0.5	< 0.8	3600	35	11	130	17000	11	3500	200	< 1.5	180	< 1	36	32	32
			20464	11000	< 0.8	10	66	< 0.5	< 0.8	3400	34	12	130	17000	13	3600	190	< 1.5	210	< 1	33	32	32
5030556 Baseball Infield	C	0-5 cm (soil)	20465	11000	< 0.8	< 5	44	< 0.5	< 0.8	7500	37	9	40	20000	9	6100	280	< 1.5	38	< 1	53	40	38
			20466	11000	< 0.8	< 5	44	< 0.5	< 0.8	7900	38	9	37	19000	9	6100	280	< 1.5	41	< 1	54	38	37
5030557 Baseball Outfield	D	0-5 cm (soil)	20467	12000	< 0.8	10	59	< 0.5	< 0.8	11000	36	14	250	17000	22	7300	200	< 1.5	260	2	47	32	41
			20468	12000	< 0.8	7	55	< 0.5	< 0.8	8600	34	10	170	16000	17	5000	200	< 1.5	160	1	48	32	54
		5-10 cm (soil)	20469	13000	< 0.8	8	77	< 0.5	< 0.8	4100	41	11	130	19000	13	4300	240	< 1.5	160	< 1	37	36	38
			20470	18000	< 0.8	7	110	< 0.5	< 0.8	5800	51	13	130	23000	13	5500	290	< 1.5	180	1	49	46	42
		10-20 cm (soil)	20471	21000	< 0.8	6	130	< 0.5	< 0.8	4400	53	11	100	22000	11	5200	280	< 1.5	140	< 1	50	46	41
			20472	14000	< 0.8	6	79	< 0.5	< 0.8	3700	38	10	110	18000	10	3600	210	< 1.5	150	< 1	40	34	32
5030558 Play Structure	E	0-5 cm (sand)	20473	8200	< 0.8	< 5	36	< 0.5	< 0.8	3700	31	8	32	16000	4	3500	200	< 1.5	36	< 1	33	34	24
			20474	6600	< 0.8	< 5	25	< 0.5	< 0.8	3300	28	7	29	15000	3	3400	180	< 1.5	32	< 1	27	32	22

Table F (results in bold)	NG	1.0	17	210	1.2	1.0	NG	71	21	85	NG	120	NG	NG	2.5	43	1.9	NG	91	160
Table A (results in bold and underlined)	NG	13	20	750	1.2	12.0	NG	750	40	225	NG	200	NG	NG	40	150	10	NG	200	600
< - less than the Method Detection Limit. NG - no guideline. All results are in µg/g dry wt.																				

Table C4.3: Sudbury Core Parks

Station	Map ID	Soil Depth	Sample No.	Al	Sb	As	Ba	Be	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Mo	Ni	Se	Sr	V	Zn
Lawson St. Playground,Fraser St.																							
5030953 Green Space	A	0-5 cm (soil)	21743	13000	< 0.8	< 5	72	< 0.5	< 0.8	6400	41	17	<u>230</u>	17000	26	4500	230	< 1.5	<u>278</u>	1	42	34	49
			21744	13000	< 0.8	< 5	69	< 0.5	< 0.8	8200	43	17	<u>240</u>	18000	29	5200	240	< 1.5	<u>286</u>	1	44	35	44
		5-10 cm (soil)	21745	14000	< 0.8	< 5	77	< 0.5	< 0.8	8400	42	12	<u>120</u>	18000	14	5900	240	< 1.5	<u>142</u>	< 1	44	36	41
			21746	13000	< 0.8	< 5	70	< 0.5	< 0.8	7100	40	13	<u>120</u>	17000	18	5000	230	< 1.5	<u>175</u>	< 1	43	34	44
		10-20 cm (soil)	21747	15000	< 0.8	< 5	100	< 0.5	< 0.8	8800	41	14	<u>72</u>	17000	20	6500	230	< 1.5	<u>186</u>	< 1	40	36	32
			21748	11000	< 0.8	< 5	73	< 0.5	< 0.8	8400	34	8	51	15000	10	5600	220	< 1.5	<u>54</u>	< 1	38	31	27
5030954 Play Structure	B	0-5 cm (sand)	21749	6600	< 0.8	5	31	< 0.5	< 0.8	2700	29	12	46	16000	5	3800	220	< 1.5	42	< 1	24	38	23
			21750	6700	< 0.8	5	32	< 0.5	< 0.8	2800	29	11	52	17000	5	4000	230	< 1.5	<u>49</u>	< 1	23	38	24
Little Britain Tot Lot,Granite St.																							
5030701 Play Structure	A	0-5 cm (sand)	19274	6800	< 0.8	6	32	< 0.5	< 0.8	2700	35	12	<u>110</u>	15000	10	3800	200	< 1.5	<u>111</u>	< 1	26	28	29
			19275	6700	< 0.8	11	31	< 0.5	< 0.8	2500	34	12	<u>120</u>	15000	10	3900	200	< 1.5	<u>114</u>	< 1	24	27	29
5030702 Play Structure	B	0-5 cm (sand)	19276	6500	< 0.8	< 5	24	< 0.5	< 0.8	2700	30	10	52	16000	5	3800	200	< 1.5	<u>55</u>	< 1	23	33	23
			19277	5900	< 0.8	< 5	22	< 0.5	< 0.8	2300	27	8	50	15000	12	3800	190	< 1.5	<u>145</u>	< 1	18	30	23
Melvin Ave. And Mabel St. Playground, Corner of Melvin Ave. And Mabel St.																							
5030576 Green Space	A	0-5 cm (soil)	20537	8100	< 0.8	5	28	< 0.5	< 0.8	3100	26	8	<u>85</u>	13000	20	2200	160	< 1.5	<u>120</u>	< 1	29	26	40
			20538	8600	< 0.8	< 5	36	< 0.5	< 0.8	3300	25	7	<u>62</u>	13000	12	2300	160	< 1.5	<u>84</u>	< 1	30	25	31
		5-10 cm (soil)	20539	8700	< 0.8	< 5	24	< 0.5	< 0.8	2600	23	5	43	13000	11	1600	150	< 1.5	<u>54</u>	< 1	25	26	24
			20540	9600	< 0.8	< 5	28	< 0.5	< 0.8	3000	25	6	44	13000	14	1800	140	< 1.5	<u>64</u>	< 1	29	26	25
		10-20 cm (soil)	20541	8600	< 0.8	6	32	< 0.5	< 0.8	2400	23	6	<u>57</u>	13000	43	1800	150	< 1.5	<u>81</u>	< 1	24	25	45
			20542	9200	< 0.8	7	37	< 0.5	< 0.8	2500	25	7	<u>93</u>	15000	20	1900	160	< 1.5	<u>110</u>	< 1	27	26	46
5030577 Play Structure	B	0-5 cm (sand)	20543	6500	< 0.8	< 5	22	< 0.5	< 0.8	3000	32	9	32	17000	7	3700	180	< 1.5	39	< 1	23	33	25
			20544	5900	< 0.8	< 5	20	< 0.5	< 0.8	2600	30	8	30	16000	5	3600	170	< 1.5	40	< 1	19	32	25
Memorial Park,Corner of Minto & Brady St.																							
5030711 Green Space	A	0-5 cm (soil)	19306	5800	< 0.8	< 5	39	< 0.5	< 0.8	2800	28	8	45	14000	1	3400	170	< 1.5	24	< 1	29	30	24
			19307	5600	< 0.8	< 5	31	< 0.5	< 0.8	2700	30	8	46	14000	1	3300	200	< 1.5	25	< 1	37	28	28
5030712 Green Space	B	0-5 cm (soil)	19308	4000	< 0.8	< 5	18	< 0.5	< 0.8	3000	22	7	19	13000	3	3000	140	< 1.5	27	< 1	13	28	13
			19309	4200	< 0.8	< 5	17	< 0.5	< 0.8	3000	22	6	17	12000	3	3000	140	< 1.5	24	< 1	14	27	13
5030713 Green Space	C	0-5 cm (soil)	19310	8800	< 0.8	6	38	< 0.5	< 0.8	4500	32	10	<u>110</u>	14000	26	2900	200	< 1.5	<u>120</u>	1	32	27	32
			19311	7900	< 0.8	< 5	38	< 0.5	< 0.8	4300	29	11	<u>83</u>	14000	26	3100	210	< 1.5	<u>98</u>	1	23	25	33
		5-10 cm (soil)	19312	9200	< 0.8	6	41	< 0.5	< 0.8	5800	31	13	<u>120</u>	16000	30	3200	200	< 1.5	<u>160</u>	1	34	28	36
			19313	9700	< 0.8	< 5	44	< 0.5	< 0.8	5700	34	11	<u>78</u>	16000	24	3500	230	< 1.5	<u>96</u>	< 1	33	30	37
		10-20 cm (soil)	19314	8100	< 0.8	6	38	< 0.5	< 0.8	4400	29	16	<u>140</u>	16000	36	2800	190	< 1.5	<u>180</u>	< 1	27	25	39
			19315	8800	< 0.8	< 5	49	< 0.5	< 0.8	5800	32	12	<u>97</u>	16000	34	3600	220	< 1.5	<u>130</u>	1	31	28	38
5030714 Green Space	D	0-5 cm (soil)	19316	7100	< 0.8	10	39	< 0.5	0.8	4400	32	14	<u>240</u>	14000	<u>56</u>	2600	190	< 1.5	<u>260</u>	3	23	24	38

Table F (results in bold)	NG	1.0	17	210	1.2	1.0	NG	71	21	85	NG	120	NG	NG	2.5	43	1.9	NG	91	160
Table A (results in bold and underlined)	NG	13	20	750	1.2	12.0	NG	750	40	225	NG	200	NG	NG	40	150	10	NG	200	600
< - less than the Method Detection Limit.																				
NG - no guideline.																				
All results are in µg/g dry wt.																				

Table C4.3: Sudbury Core Parks																								
Station	Map ID	Soil Depth	Sample No.	Al	Sb	As	Ba	Be	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Mo	Ni	Se	Sr	V	Zn	
			19317	8400	< 0.8	7	42	< 0.5	< 0.8	4900	31	12	140	15000	30	3000	210	< 1.5	170	2	29	26	37	
		5-10 cm (soil)	19318	7600	< 0.8	7	29	< 0.5	< 0.8	3900	26	9	130	12000	27	2100	170	< 1.5	170	1	30	25	27	
			19319	11000	< 0.8	6	47	< 0.5	< 0.8	6000	33	8	100	14000	21	2600	200	< 1.5	130	1	44	30	30	
5030715 Green Space	E	0-5 cm (soil)	19320	10000	< 0.8	6	47	< 0.5	< 0.8	6800	33	10	130	15000	43	2800	220	< 1.5	180	1	44	30	34	
			19321	10000	< 0.8	< 5	48	< 0.5	< 0.8	6400	33	9	82	15000	25	3000	260	< 1.5	110	1	43	30	31	
		5-10 cm (soil)	19322	10000	< 0.8	7	47	< 0.5	< 0.8	7000	34	12	140	15000	39	2800	220	< 1.5	210	1	43	31	34	
			19323	9400	< 0.8	6	41	< 0.5	< 0.8	6000	33	10	110	14000	38	2800	220	< 1.5	160	1	40	29	30	
		10-20 cm (soil)	19324	8500	< 0.8	6	36	< 0.5	< 0.8	4900	26	8	79	13000	24	2400	200	< 1.5	120	< 1	35	27	29	
			19325	8200	< 0.8	5	35	< 0.5	< 0.8	4400	26	8	77	12000	21	2200	210	< 1.5	130	< 1	30	26	27	
Nolin Creek Park, Beatty and McNeil St.																								
5030564 Green Space	A	0-5 cm (soil)	20493	11000	< 0.8	6	41	< 0.5	< 0.8	5600	36	8	71	16000	16	3400	250	< 1.5	80	< 1	40	32	39	
			20494	11000	< 0.8	6	44	< 0.5	< 0.8	6100	37	10	67	16000	20	3600	260	< 1.5	100	< 1	43	34	39	
		5-10 cm (soil)	20495	10000	< 0.8	7	42	< 0.5	< 0.8	5900	35	9	89	15000	16	3700	240	< 1.5	91	< 1	36	31	38	
			20496	11000	< 0.8	5	42	< 0.5	< 0.8	6100	36	9	63	16000	20	3700	260	< 1.5	84	< 1	38	32	38	
		10-20 cm (soil)	20497	10000	< 0.8	< 5	42	< 0.5	< 0.8	6000	35	13	78	16000	36	3700	240	< 1.5	110	< 1	35	31	41	
			20498	11000	< 0.8	< 5	48	< 0.5	< 0.8	7900	38	11	94	17000	27	4200	250	< 1.5	110	< 1	40	32	39	
Donnor Park (Better Beginnings),140 St. George St.																								
5030578 Play Structure	A	0-5 cm (sand)	20545	5500	< 0.8	< 5	20	< 0.5	< 0.8	2100	28	8	28	14000	3	3700	180	< 1.5	43	< 1	16	27	20	
			20546	6500	< 0.8	< 5	26	< 0.5	< 0.8	2800	30	9	33	16000	4	3700	200	< 1.5	42	< 1	23	35	22	
5030579 Play Area	B	0-5 cm (sand)	20547	7200	< 0.8	< 5	24	< 0.5	< 0.8	3500	31	9	29	16000	4	3600	190	< 1.5	32	< 1	28	31	21	
			20548	9300	< 0.8	< 5	38	< 0.5	< 0.8	4500	36	8	28	16000	3	3800	210	< 1.5	27	< 1	37	35	23	
5030580 Green Space	C	0-5 cm (soil)	20549	11000	< 0.8	6	55	< 0.5	< 0.8	7700	33	10	150	15000	28	3600	220	< 1.5	190	2	42	30	38	
			20550	12000	< 0.8	6	53	< 0.5	< 0.8	8300	36	11	150	15000	26	3600	220	< 1.5	190	2	42	30	39	
		5-10 cm (soil)	20551	13000	< 0.8	5	54	< 0.5	< 0.8	7600	36	8	92	16000	18	3300	230	< 1.5	130	< 1	45	32	39	
			20552	13000	< 0.8	6	54	< 0.5	< 0.8	6800	36	10	100	16000	21	3000	230	< 1.5	160	< 1	44	31	36	
		10-20 cm (soil)	20553	14000	< 0.8	7	47	< 0.5	< 0.8	6900	35	4	99	18000	11	3700	220	< 1.5	60	3	39	31	36	
			20554	15000	< 0.8	8	41	< 0.5	< 0.8	6900	30	4	140	21000	13	3900	190	< 1.5	82	1	34	28	38	
5030581 Green Space	D	0-5 cm (soil)	20555	14000	< 0.8	7	49	< 0.5	< 0.8	7800	38	5	180	20000	14	4500	280	< 1.5	76	2	43	35	73	
			20556	15000	< 0.8	6	46	< 0.5	< 0.8	9100	35	5	170	20000	17	5100	270	< 1.5	83	2	43	32	66	
		5-10 cm (soil)	20557	14000	< 0.8	5	41	< 0.5	< 0.8	5300	32	3	75	17000	8	3100	230	< 1.5	41	< 1	41	33	43	
			20558	16000	< 0.8	< 5	45	< 0.5	< 0.8	5900	34	3	80	19000	8	3600	240	< 1.5	39	< 1	42	34	53	
		10-20 cm (soil)	20559	14000	< 0.8	< 5	51	< 0.5	< 0.8	5600	32	4	95	18000	12	3300	240	< 1.5	60	< 1	41	31	40	
			20560	17000	< 0.8	5	54	< 0.5	< 0.8	6300	36	3	75	20000	12	3700	280	< 1.5	38	< 1	46	35	55	

Table F (results in bold)	NG	1.0	17	210	1.2	1.0	NG	71	21	85	NG	120	NG	NG	2.5	43	1.9	NG	91	160
Table A (results in bold and underlined)	NG	13	20	750	1.2	12.0	NG	750	40	225	NG	200	NG	NG	40	150	10	NG	200	600
< - less than the Method Detection Limit. NG - no guideline. All results are in µg/g dry wt.																				

Table C4.3: Sudbury Core Parks																								
Station	Map ID	Soil Depth	Sample No.	Al	Sb	As	Ba	Be	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Mo	Ni	Se	Sr	V	Zn	
Participation Projects Playground, Mig St.																								
5030552 Play Structure	A	0-5 cm (sand)	20449	8100	< 0.8	< 5	45	< 0.5	< 0.8	3200	27	8	33	14000	4	3700	190	< 1.5	34	< 1	29	29	20	
			20450	6700	< 0.8	< 5	32	< 0.5	< 0.8	3400	25	8	47	14000	4	3700	190	< 1.5	38	< 1	25	27	20	
5030553 Green Space	B	0-5 cm (soil)	20451	10000	< 0.8	< 5	45	< 0.5	< 0.8	4000	29	8	89	13000	10	3000	160	< 1.5	110	< 1	34	27	25	
			20452	9600	< 0.8	< 5	37	< 0.5	< 0.8	4900	29	8	78	14000	9	3300	160	< 1.5	99	< 1	36	29	26	
		5-10 cm (soil)	20453	9600	< 0.8	< 5	37	< 0.5	< 0.8	3300	30	6	20	14000	4	3000	150	< 1.5	32	< 1	33	29	17	
			20454	7900	< 0.8	< 5	27	< 0.5	< 0.8	2600	27	7	23	12000	4	2800	140	< 1.5	35	< 1	26	25	18	
		10-20 cm (soil)	20455	7700	< 0.8	< 5	36	< 0.5	< 0.8	2600	26	8	26	13000	5	2800	150	< 1.5	45	< 1	25	24	19	
			20456	6900	< 0.8	< 5	24	< 0.5	< 0.8	2300	24	7	22	12000	4	2600	130	< 1.5	35	< 1	22	23	16	
Percy Playground, 600 Percy Ave.																								
5030591 Play Structure	A	0-5 cm (sand)	20595	6800	< 0.8	< 5	22	< 0.5	< 0.8	3400	27	9	28	15000	5	3900	190	< 1.5	30	< 1	25	33	23	
			20596	6900	< 0.8	< 5	21	< 0.5	< 0.8	3400	28	8	29	16000	3	3900	190	< 1.5	32	< 1	24	32	22	
5030592 Play Structure	B	0-5 cm (sand)	20597	6700	< 0.8	< 5	25	< 0.5	< 0.8	3000	28	10	40	16000	3	4000	200	< 1.5	48	< 1	23	28	27	
			20598	7300	< 0.8	< 5	26	< 0.5	< 0.8	3400	30	10	39	17000	3	3900	200	< 1.5	44	< 1	26	33	29	
5030593 Green Space	C	0-5 cm (soil)	20599	9600	< 0.8	5	30	< 0.5	< 0.8	5200	27	7	70	13000	10	2900	160	< 1.5	90	< 1	34	25	25	
			20600	9900	< 0.8	< 5	32	< 0.5	< 0.8	5400	28	9	88	14000	17	3100	170	< 1.5	130	< 1	33	26	28	
		5-10 cm (soil)	20601	8800	< 0.8	< 5	25	< 0.5	< 0.8	3000	23	5	23	12000	6	2100	120	< 1.5	38	< 1	20	22	18	
			20602	8800	< 0.8	< 5	26	< 0.5	< 0.8	3600	24	5	22	11000	4	2100	120	< 1.5	39	< 1	28	24	18	
		10-20 cm (soil)	20603	9300	< 0.8	< 5	35	< 0.5	< 0.8	4000	27	7	29	13000	7	2500	150	< 1.5	48	< 1	32	27	22	
			20604	11000	< 0.8	< 5	38	< 0.5	< 0.8	5200	31	8	50	14000	13	2700	170	< 1.5	87	< 1	42	28	31	
5030594 Green Space	D	0-5 cm (soil)	20605	16000	< 0.8	< 5	75	< 0.5	< 0.8	7300	48	11	100	19000	15	4700	270	< 1.5	130	< 1	52	39	46	
			20606	15000	< 0.8	5	74	< 0.5	< 0.8	7900	44	13	150	19000	24	4700	290	< 1.5	200	1	50	37	49	
		5-10 cm (soil)	20607	14000	< 0.8	< 5	62	< 0.5	< 0.8	7100	39	8	55	18000	9	4400	260	< 1.5	67	< 1	48	35	36	
			20608	15000	< 0.8	< 5	68	< 0.5	< 0.8	7400	43	10	62	19000	12	4600	280	< 1.5	86	< 1	53	38	40	
		10-20 cm (soil)	20609	14000	< 0.8	< 5	73	< 0.5	< 0.8	8200	43	11	47	18000	11	4900	260	< 1.5	76	< 1	49	35	39	
			20610	14000	< 0.8	< 5	66	< 0.5	< 0.8	7800	42	7	52	19000	11	4700	270	< 1.5	56	< 1	50	38	37	
5030595 Green Space	E	0-5 cm (soil)	20611	9400	< 0.8	6	38	< 0.5	< 0.8	5000	29	14	150	16000	26	3000	190	< 1.5	220	< 1	36	28	45	
			20612	7900	< 0.8	7	42	< 0.5	< 0.8	4800	29	20	220	16000	32	3300	200	< 1.5	330	1	31	28	62	
		5-10 cm (soil)	20613	8900	< 0.8	< 5	38	< 0.5	< 0.8	3800	26	9	78	15000	12	2600	160	< 1.5	120	< 1	30	27	36	
			20614	9600	< 0.8	< 5	40	< 0.5	< 0.8	4500	27	10	100	16000	13	2900	170	< 1.5	140	< 1	34	30	34	
		10-20 cm (soil)	20615	8700	2.8	< 5	39	< 0.5	< 0.8	6900	28	7	37	13000	6	3900	180	< 1.5	56	< 1	33	27	38	
			20616	10000	< 0.8	6	48	< 0.5	< 0.8	5500	30	9	77	15000	12	3500	200	< 1.5	89	< 1	34	28	35	

Table F (results in bold)	NG	1.0	17	210	1.2	1.0	NG	71	21	85	NG	120	NG	NG	2.5	43	1.9	NG	91	160
Table A (results in bold and underlined)	NG	13	20	750	1.2	12.0	NG	750	40	225	NG	200	NG	NG	40	150	10	NG	200	600
< - less than the Method Detection Limit. NG - no guideline. All results are in µg/g dry wt.																				

Table C4.3: Sudbury Core Parks																								
Station	Map ID	Soil Depth	Sample No.	Al	Sb	As	Ba	Be	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Mo	Ni	Se	Sr	V	Zn	
Queens Athletic Field,30 Argent Street																								
5030559 Green Space	A	0-5 cm (soil)	20475	8600	< 0.8	< 5	22	< 0.5	< 0.8	2300	22	5	46	12000	9	2000	120	< 1.5	55	< 1	26	24	20	
			20476	8300	< 0.8	< 5	27	< 0.5	< 0.8	2400	21	6	90	12000	13	2000	130	< 1.5	92	< 1	24	23	23	
		5-10 cm (soil)	20477	8100	< 0.8	< 5	23	< 0.5	< 0.8	1900	23	6	42	13000	10	2300	160	< 1.5	50	1	22	25	21	
			20478	8600	< 0.8	< 5	23	< 0.5	< 0.8	2100	24	7	48	13000	8	2400	170	< 1.5	57	1	25	25	22	
		10-20 cm (soil)	20479	7300	< 0.8	< 5	26	< 0.5	< 0.8	2000	23	7	38	13000	15	2500	160	< 1.5	53	< 1	23	24	21	
			20480	8200	< 0.8	< 5	28	< 0.5	< 0.8	2200	23	8	50	13000	10	2400	170	< 1.5	68	< 1	26	26	23	
5030560 Play Structure	B	0-5 cm (sand)	20481	6100	< 0.8	< 5	21	< 0.5	< 0.8	2300	26	8	26	15000	3	3300	170	< 1.5	25	< 1	22	28	19	
			20482	6400	< 0.8	< 5	21	< 0.5	< 0.8	2400	26	8	22	15000	3	3300	180	< 1.5	24	< 1	26	27	18	
5030561 Soccer Field	C	0-5 cm (soil)	20483	5000	< 0.8	< 5	21	< 0.5	< 0.8	2700	20	5	33	11000	4	2300	130	< 1.5	42	< 1	24	23	15	
			20484	4300	< 0.8	< 5	17	< 0.5	< 0.8	2200	19	5	30	9900	3	2200	110	< 1.5	36	1	18	21	14	
		5-10 cm (soil)	20485	4400	< 0.8	< 5	17	< 0.5	< 0.8	2000	17	4	12	9400	2	2100	110	< 1.5	18	< 1	18	21	12	
			20486	5200	< 0.8	< 5	20	< 0.5	< 0.8	2300	18	5	15	10000	2	2200	120	< 1.5	21	< 1	23	23	12	
		10-20 cm (soil)	20487	5600	< 0.8	< 5	22	< 0.5	< 0.8	2400	20	4	11	11000	2	2200	140	< 1.5	16	< 1	25	24	13	
			20488	5200	< 0.8	< 5	19	< 0.5	< 0.8	2200	18	4	11	11000	2	2200	120	< 1.5	15	< 1	24	23	14	
5030562 Soccer Field	D	0-5 cm (soil)	20489	7500	< 0.8	< 5	33	< 0.5	< 0.8	4500	23	7	52	13000	7	2700	180	< 1.5	57	1	33	26	22	
			20490	8600	< 0.8	< 5	41	< 0.5	< 0.8	4500	26	7	46	13000	7	2700	190	< 1.5	57	< 1	35	29	24	
5030563 Soccer Field	E	0-5 cm (soil)	20491	9200	< 0.8	< 5	44	< 0.5	< 0.8	5200	28	7	51	14000	8	3100	200	< 1.5	60	< 1	37	31	26	
			20492	7700	< 0.8	< 5	36	< 0.5	< 0.8	4700	24	7	56	13000	8	2900	190	< 1.5	63	< 1	33	28	25	
Rerdale Park,199 York St.																								
5030706 Play Structure	A	0-5 cm (sand)	19292	6400	< 0.8	< 5	26	< 0.5	< 0.8	2900	26	10	40	16000	7	3800	200	< 1.5	38	< 1	25	33	25	
			19293	7000	< 0.8	< 5	29	< 0.5	< 0.8	3200	29	11	46	18000	7	3900	220	< 1.5	45	< 1	27	39	26	
5030707 Green Space	B	0-5 cm (soil)	19294	5800	< 0.8	6	26	< 0.5	< 0.8	2100	24	13	140	16000	26	3000	140	< 1.5	200	1	19	24	26	
			19295	6200	< 0.8	8	28	< 0.5	< 0.8	2400	26	14	150	17000	28	3100	150	< 1.5	218	1	21	25	25	
Pan Heights Playground,1 Pan Heights																								
5030574 Green Space	A	0-5 cm (soil)	20529	12000	< 0.8	5	73	< 0.5	0.9	6200	38	18	210	20000	30	3800	230	< 1.5	260	2	37	36	140	
			20530	12000	< 0.8	< 5	80	< 0.5	0.8	6100	40	17	180	19000	28	3900	230	< 1.5	240	1	38	34	89	
		5-10 cm (soil)	20531	11000	< 0.8	5	58	< 0.5	< 0.8	5900	35	12	130	20000	13	3600	270	< 1.5	130	< 1	36	40	74	
			20532	9400	< 0.8	< 5	50	< 0.5	< 0.8	5100	32	11	110	17000	15	3600	180	< 1.5	130	< 1	30	32	41	
		10-20 cm (soil)	20533	9800	< 0.8	6	53	< 0.5	< 0.8	5200	32	11	100	18000	14	3400	170	< 1.5	120	< 1	30	37	37	
			20534	9600	< 0.8	< 5	56	< 0.5	< 0.8	5800	32	12	96	17000	19	3800	180	< 1.5	130	< 1	30	32	35	
5030575 Play Structure	B	0-5 cm (sand)	20535	5900	< 0.8	< 5	23	< 0.5	< 0.8	2400	28	8	25	15000	3	3600	180	< 1.5	30	< 1	18	30	22	
			20536	5600	< 0.8	< 5	23	< 0.5	< 0.8	2400	31	8	27	16000	3	3400	180	< 1.5	33	< 1	18	39	23	
Selkirk Field,Burton Selkirk Streets																								
5030568 Play Structure	A	0-5 cm (sand)	20509	8500	< 0.8	< 5	38	< 0.5	< 0.8	3400	38	11	48	18000	6	4100	230	< 1.5	56	< 1	29	38	28	
Table F (results in bold)				NG	1.0	17	210	1.2	1.0	NG	71	21	85	NG	120	NG	NG	2.5	43	1.9	NG	91	160	
Table A (results in bold and underlined)				NG	13	20	750	1.2	12.0	NG	750	40	225	NG	200	NG	NG	40	150	10	NG	200	600	
< - less than the Method Detection Limit. NG - no guideline. All results are in µg/g dry wt.																								

Table C4.3: Sudbury Core Parks

Station	Map ID	Soil Depth	Sample No.	Al	Sb	As	Ba	Be	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Mo	Ni	Se	Sr	V	Zn
			20510	7900	< 0.8	< 5	33	< 0.5	< 0.8	3300	29	11	41	18000	4	3900	230	< 1.5	39	< 1	28	40	25
5030569 Play Structure	B	0-5 cm (sand)	20511	9300	< 0.8	< 5	42	< 0.5	< 0.8	3700	35	13	67	19000	7	4500	240	< 1.5	69	< 1	32	40	29
			20512	9200	< 0.8	< 5	40	< 0.5	< 0.8	3600	36	14	75	19000	8	4400	240	< 1.5	85	< 1	32	41	30
5030570 Baseball Infield	C	0-5 cm (soil)	20513	9800	< 0.8	< 5	48	< 0.5	< 0.8	11000	30	5	27	14000	4	5700	220	< 1.5	36	< 1	87	28	25
			20514	7600	< 0.8	< 5	36	< 0.5	< 0.8	9900	26	6	28	13000	4	5600	200	< 1.5	35	< 1	82	26	25
5030571 Baseball Outfield	D	0-5 cm (soil)	20515	8600	< 0.8	< 5	23	< 0.5	< 0.8	4900	25	6	49	12000	8	2900	150	< 1.5	70	< 1	31	25	20
			20516	9200	< 0.8	< 5	24	< 0.5	< 0.8	4800	26	8	53	12000	10	2700	160	< 1.5	80	< 1	31	25	21
		5-10 cm (soil)	20517	7700	< 0.8	< 5	21	< 0.5	< 0.8	3400	24	6	23	11000	6	2200	130	< 1.5	36	< 1	26	23	15
			20518	9100	< 0.8	< 5	24	< 0.5	< 0.8	4100	27	6	29	13000	6	2400	160	< 1.5	44	< 1	35	27	17
		10-20 cm (soil)	20519	7600	< 0.8	< 5	25	< 0.5	< 0.8	4600	27	7	42	13000	8	2900	160	< 1.5	57	< 1	30	26	19
			20520	8100	< 0.8	< 5	26	< 0.5	< 0.8	4100	26	8	35	12000	8	2500	160	< 1.5	58	< 1	31	26	19
5030572 Green Space	E	0-5 cm (soil)	20521	11000	< 0.8	< 5	52	< 0.5	< 0.8	4900	32	13	110	18000	26	3400	240	< 1.5	150	< 1	36	32	39
			20522	12000	< 0.8	< 5	67	< 0.5	< 0.8	4700	38	22	130	21000	34	3900	250	< 1.5	190	< 1	37	34	52
		5-10 cm (soil)	20523	9900	< 0.8	< 5	41	< 0.5	< 0.8	4300	29	11	94	16000	20	3400	180	< 1.5	130	< 1	28	30	33
			20524	11000	< 0.8	< 5	56	< 0.5	< 0.8	5100	34	13	96	18000	21	4100	220	< 1.5	130	< 1	36	33	39
		10-20 cm (soil)	20525	9900	< 0.8	< 5	36	< 0.5	< 0.8	5200	27	8	63	14000	11	3200	180	< 1.5	74	< 1	34	30	25
			20526	14000	< 0.8	< 5	63	< 0.5	< 0.8	6500	36	12	76	19000	14	4200	220	< 1.5	100	< 1	44	36	33
Terry Fox Complex,17 Lasalle Blvd																							
5030582 Baseball Infield	A	0-5 cm (soil)	20561	11000	< 0.8	< 5	54	< 0.5	< 0.8	27000	27	5	39	17000	6	14000	210	< 1.5	38	< 1	240	27	25
			20562	9800	< 0.8	< 5	54	< 0.5	< 0.8	27000	26	3	39	15000	4	15000	210	< 1.5	25	< 1	240	26	24
5030583 Baseball Outfield	B	0-5 cm (soil)	20563	15000	< 0.8	< 5	61	< 0.5	< 0.8	16000	45	6	200	20000	15	8700	280	< 1.5	110	< 1	59	35	46
			20564	20000	< 0.8	< 5	60	< 0.5	< 0.8	16000	50	5	190	24000	12	9800	290	< 1.5	82	< 1	60	40	47
		5-10 cm (soil)	20565	18000	< 0.8	< 5	69	< 0.5	< 0.8	9200	58	10	110	23000	13	6600	280	< 1.5	120	< 1	57	44	50
			20566	19000	< 0.8	< 5	66	< 0.5	< 0.8	10000	58	9	120	24000	12	7200	290	< 1.5	110	< 1	57	44	50
		10-20 cm (soil)	20567	21000	< 0.8	< 5	81	< 0.5	< 0.8	11000	64	6	120	25000	9	7400	300	< 1.5	86	< 1	62	48	53
			20568	18000	< 0.8	< 5	68	< 0.5	< 0.8	9800	55	9	97	22000	12	6700	270	< 1.5	120	< 1	54	42	46
5030584 Baseball Infield	C	0-5 cm (soil)	20569	12000	< 0.8	< 5	76	< 0.5	< 0.8	27000	33	4	54	19000	5	15000	260	< 1.5	31	< 1	300	34	32
			20570	12000	< 0.8	< 5	70	< 0.5	< 0.8	27000	31	3	55	19000	4	15000	240	< 1.5	24	< 1	310	32	29
5030585 Baseball Outfield	D	0-5 cm (soil)	20571	11000	< 0.8	< 5	48	< 0.5	1	11000	36	12	150	16000	30	5900	240	< 1.5	200	< 1	47	28	39
			20572	11000	< 0.8	< 5	48	< 0.5	1.1	11000	36	12	150	15000	25	5800	230	< 1.5	200	< 1	46	28	40
		5-10 cm (soil)	20573	13000	< 0.8	< 5	47	< 0.5	< 0.8	6900	41	10	110	18000	16	4100	220	< 1.5	150	< 1	44	33	40
			20574	12000	< 0.8	< 5	47	< 0.5	< 0.8	6600	42	10	99	17000	16	4300	220	< 1.5	160	< 1	40	33	41
		10-20 cm (soil)	20575	11000	< 0.8	< 5	45	< 0.5	< 0.8	5000	39	10	80	17000	14	3800	200	< 1.5	130	< 1	28	29	36
			20576	14000	< 0.8	< 5	55	< 0.5	< 0.8	7200	45	11	96	19000	14	4500	260	< 1.5	140	< 1	50	38	45
5030586 Baseball Infield	E	0-5 cm (soil)	20577	7600	< 0.8	< 5	70	< 0.5	< 0.8	26000	24	8	48	13000	8	13000	210	< 1.5	66	< 1	240	26	27

Table F (results in bold)	NG	1.0	17	210	1.2	1.0	NG	71	21	85	NG	120	NG	NG	2.5	43	1.9	NG	91	160
Table A (results in bold and underlined)	NG	13	20	750	1.2	12.0	NG	750	40	225	NG	200	NG	NG	40	150	10	NG	200	600
< - less than the Method Detection Limit. NG - no guideline. All results are in µg/g dry wt.																				

Table C4.3: Sudbury Core Parks																								
Station	Map ID	Soil Depth	Sample No.	Al	Sb	As	Ba	Be	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Mo	Ni	Se	Sr	V	Zn	
			20578	8000	< 0.8	< 5	70	< 0.5	< 0.8	26000	25	8	48	14000	8	13000	220	1.5	64	< 1	230	27	28	
5030587 Baseball Outfield	F	0-5 cm (soil)	20579	13000	< 0.8	6	59	< 0.5	< 0.8	11000	42	12	150	18000	20	6200	310	< 1.5	180	2	50	35	41	
			20580	13000	< 0.8	5	58	< 0.5	0.9	11000	42	12	130	18000	21	6300	310	< 1.5	190	2	47	34	39	
		5-10 cm (soil)	20581	17000	< 0.8	7	64	< 0.5	< 0.8	7800	56	12	100	23000	15	6200	360	< 1.5	150	1	50	42	5	
			20582	17000	< 0.8	8	64	< 0.5	< 0.8	7600	56	14	110	23000	17	6200	360	< 1.5	160	< 1	48	42	54	
		10-20 cm (soil)	20583	14000	< 0.8	8	58	< 0.5	< 0.8	6400	50	13	97	21000	15	5800	320	< 1.5	150	< 1	40	38	49	
			20584	15000	< 0.8	8	60	< 0.5	< 0.8	6900	51	12	92	21000	14	5900	340	< 1.5	140	1	44	40	49	
5030588 Baseball Infield	G	0-5 cm (soil)	20585	23000	< 0.8	6	200	0.5	< 0.8	46000	27	10	38	24000	6	14000	460	1.6	56	< 1	190	26	57	
			20586	26000	< 0.8	7	200	0.6	< 0.8	52000	30	11	34	27000	6	17000	510	1.6	55	< 1	210	31	64	
5030589 Baseball Outfield	H	0-5 cm (soil)	20587	13000	< 0.8	5	54	< 0.5	< 0.8	9300	43	10	110	17000	17	5300	300	< 1.5	140	1	51	38	40	
			20588	12000	< 0.8	< 5	52	< 0.5	0.9	10000	40	10	130	17000	21	5700	300	< 1.5	160	1	47	34	39	
		5-10 cm (soil)	20589	14000	< 0.8	< 5	56	< 0.5	< 0.8	7300	46	10	54	19000	12	4300	310	< 1.5	89	< 1	54	41	39	
			20590	14000	< 0.8	< 5	54	< 0.5	< 0.8	7700	45	10	62	19000	14	4200	310	< 1.5	100	< 1	56	41	39	
		10-20 cm (soil)	20591	14000	< 0.8	< 5	60	< 0.5	< 0.8	7100	46	9	45	19000	11	4200	340	< 1.5	78	< 1	52	39	36	
			20592	12000	< 0.8	< 5	44	< 0.5	< 0.8	6200	39	9	45	17000	11	3800	310	< 1.5	78	< 1	48	36	35	
5030590 Play Structure	I	0-5 cm (sand)	20593	5000	< 0.8	< 5	19	< 0.5	< 0.8	2400	29	8	32	16000	3	3300	170	< 1.5	43	< 1	18	34	27	
			20594	5100	< 0.8	< 5	20	< 0.5	< 0.8	2400	27	8	34	15000	3	3200	160	< 1.5	43	< 1	18	34	25	
Victory Playground,Frood R.																								
5030565 Green Space	A	0-5 cm (soil)	20499	7900	< 0.8	< 5	26	< 0.5	< 0.8	3900	26	7	73	13000	19	2600	150	< 1.5	100	< 1	28	24	29	
			20500	8500	< 0.8	< 5	27	< 0.5	< 0.8	5100	26	7	68	13000	16	3000	160	< 1.5	96	< 1	30	26	30	
		5-10 cm (soil)	20501	7400	< 0.8	< 5	26	< 0.5	< 0.8	2800	24	6	60	12000	16	2400	150	< 1.5	69	< 1	20	24	27	
			20502	8700	< 0.8	< 5	27	< 0.5	< 0.8	3800	26	6	50	13000	12	2400	160	< 1.5	71	< 1	31	26	24	
		10-20 cm (soil)	20503	6300	< 0.8	< 5	26	< 0.5	< 0.8	2400	22	6	52	12000	15	2400	140	< 1.5	68	< 1	22	22	24	
			20504	8600	< 0.8	< 5	34	< 0.5	< 0.8	2900	25	6	45	12000	19	2100	160	< 1.5	62	< 1	26	24	29	
5030566 Play Structure	B	0-5 cm (sand)	20505	7800	< 0.8	< 5	26	< 0.5	< 0.8	3600	34	11	36	19000	7	4500	220	< 1.5	37	< 1	27	34	27	
			20506	7300	< 0.8	6	25	< 0.5	< 0.8	3200	34	10	42	19000	8	4400	210	< 1.5	40	< 1	23	34	29	
5030567 Play Structure	C	0-5 cm (sand)	20507	7300	< 0.8	< 5	25	< 0.5	< 0.8	3400	32	8	35	18000	5	4000	190	< 1.5	37	< 1	26	34	28	
			20508	7600	< 0.8	< 5	24	< 0.5	< 0.8	3400	31	9	32	17000	4	4100	190	< 1.5	37	< 1	28	30	26	
Community of Gatchell																								
Delki Dozzi Athletic Field,3 Mary St.																								
5030546 Play Structure	A	0-5 cm (sand)	20429	6200	< 0.8	< 5	22	< 0.5	< 0.8	2800	27	8	32	14000	4	3700	170	< 1.5	33	< 1	23	26	19	
			20430	6000	< 0.8	< 5	21	< 0.5	< 0.8	2600	25	6	25	13000	3	3600	170	< 1.5	23	< 1	22	22	18	

Table F (results in bold)	NG	1.0	17	210	1.2	1.0	NG	71	21	85	NG	120	NG	NG	2.5	43	1.9	NG	91	160
Table A (results in bold and underlined)	NG	13	20	750	1.2	12.0	NG	750	40	225	NG	200	NG	NG	40	150	10	NG	200	600
< - less than the Method Detection Limit. NG - no guideline. All results are in µg/g dry wt.																				

Table C4.3: Sudbury Core Parks

Table C4.3: Suburban Green Parks																								
Station	Map ID	Soil Depth	Sample No.	Al	Sb	As	Ba	Be	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Mo	Ni	Se	Sr	V	Zn	
5030547 Soccer Field	B	0-5 cm (soil)	20431	11000	1	< 5	42	< 0.5	< 0.8	7500	31	6	94	13000	11	3100	170	< 1.5	95	< 1	57	29	25	
			20432	11000	< 0.8	< 5	40	< 0.5	< 0.8	7600	31	8	110	13000	14	3100	170	< 1.5	120	< 1	50	29	24	
		5-10 cm (soil)	20433	11000	< 0.8	< 5	37	< 0.5	< 0.8	6000	32	6	48	13000	11	2500	150	< 1.5	69	< 1	49	30	20	
			20434	10000	< 0.8	< 5	34	< 0.5	< 0.8	5000	31	6	49	12000	9	2000	150	< 1.5	66	< 1	48	30	19	
		10-20 cm (soil)	20435	9800	1.2	< 5	40	< 0.5	< 0.8	6500	31	8	47	13000	10	2500	150	< 1.5	75	< 1	47	30	20	
			20436	9200	< 0.8	< 5	37	< 0.5	< 0.8	6900	28	8	58	15000	8	3400	140	< 1.5	75	< 1	39	27	20	
5030548 Soccer Field	C	0-5 cm (soil)	20437	8300	< 0.8	< 5	31	< 0.5	< 0.8	4500	23	5	47	12000	8	2300	150	< 1.5	60	< 1	32	24	20	
20438		8300	< 0.8	< 5	32	< 0.5	< 0.8	4500	23	6	47	12000	8	2300	150	< 1.5	62	< 1	31	24	21			
5030549 Soccer Field	D	0-5 cm (soil)	20439	8900	< 0.8	< 5	35	< 0.5	< 0.8	4400	25	6	57	12000	9	2200	180	< 1.5	72	< 1	35	25	24	
20440		9100	< 0.8	< 5	34	< 0.5	< 0.8	4500	24	6	57	12000	9	2200	180	< 1.5	78	< 1	37	25	23			
5030550 Baseball Infield	E	0-5 cm (soil)	20441	6900	0.8	< 5	23	< 0.5	< 0.8	80000	21	6	35	12000	5	11000	160	2.1	49	< 1	140	19	18	
		20442	7300	< 0.8	< 5	26	< 0.5	< 0.8	95000	22	7	44	12000	6	13000	160	1.9	59	< 1	160	19	16		
5030551 Baseball Outfield	F	0-5 cm (soil)	20443	7700	< 0.8	< 5	30	< 0.5	< 0.8	5600	24	7	140	11000	14	2600	130	< 1.5	130	1	33	23	21	
			20444	9300	< 0.8	< 5	37	< 0.5	< 0.8	10000	26	7	170	12000	13	3300	160	< 1.5	150	1	55	26	24	
		5-10 cm (soil)	20445	9000	< 0.8	< 5	28	< 0.5	< 0.8	4400	27	5	48	12000	8	2300	130	< 1.5	58	< 1	34	27	20	
			20446	9400	< 0.8	6	28	< 0.5	< 0.8	4500	28	5	50	13000	9	2300	140	< 1.5	60	< 1	39	28	20	
		10-20 cm (soil)	20447	8900	< 0.8	< 5	36	< 0.5	< 0.8	4300	27	5	36	13000	8	2300	150	< 1.5	51	< 1	38	28	20	
			20448	11000	< 0.8	< 5	43	< 0.5	< 0.8	6000	32	7	42	15000	9	2700	170	< 1.5	65	< 1	47	31	23	
Gatchell Pool Field, Tuddenham Ave.																								
5030545 Green Space	A	0-5 cm (soil)	20423	8500	< 0.8	< 5	35	< 0.5	< 0.8	3400	28	11	240	15000	19	2900	150	< 1.5	190	2	30	26	29	
			20424	8500	< 0.8	5	35	< 0.5	< 0.8	3300	28	11	240	15000	23	2800	150	< 1.5	200	1	30	26	30	
		5-10 cm (soil)	20425	9200	< 0.8	5	41	< 0.5	< 0.8	3000	28	12	140	15000	19	2700	160	< 1.5	190	< 1	30	28	30	
			20426	8600	1.5	< 5	41	< 0.5	< 0.8	2600	26	10	130	14000	32	2700	160	< 1.5	170	< 1	26	26	28	
		10-20 cm (soil)	20427	9300	< 0.8	< 5	51	< 0.5	< 0.8	3500	29	10	68	15000	28	3000	190	1.6	110	< 1	30	29	32	
			20428	8700	< 0.8	< 5	56	< 0.5	< 0.8	2900	30	9	59	16000	20	3300	190	< 1.5	79	< 1	26	29	31	
Ginn & Logan Streets Playground, Ginn & Logan Streets																								
5030543 Play Structure	A	0-5 cm (sand)	20415	6300	< 0.8	6	26	< 0.5	< 0.8	2500	29	11	78	16000	6	3400	200	< 1.5	64	< 1	22	34	28	
			20416	5900	< 0.8	6	26	< 0.5	< 0.8	2300	26	11	85	15000	7	3500	190	< 1.5	74	< 1	18	34	25	
5030544 Green Space	B	0-5 cm (soil)	20417	12000	< 0.8	7	44	< 0.5	< 0.8	6400	38	12	190	18000	16	3800	270	< 1.5	167	1	41	34	47	
			20418	13000	< 0.8	6	45	< 0.5	< 0.8	6900	39	10	220	18000	15	3900	260	< 1.5	153	2	43	35	48	
		5-10 cm (soil)	20419	13000	< 0.8	6	43	< 0.5	< 0.8	6500	39	7	66	17000	10	3700	290	< 1.5	80	< 1	48	36	38	
			20420	12000	< 0.8	5	42	< 0.5	< 0.8	6100	51	9	79	17000	13	3500	270	2.4	110	< 1	45	34	38	
		10-20 cm (soil)	20421	12000	< 0.8	5	45	< 0.5	< 0.8	6200	38	8	74	17000	12	3600	280	< 1.5	87	< 1	47	35	36	
			20422	12000	< 0.8	5	46	< 0.5	< 0.8	6200	37	9	78	17000	15	3500	260	< 1.5	100	< 1	46	34	36	

Table F (results in bold)	NG	1.0	17	210	1.2	1.0	NG	71	21	85	NG	120	NG	NG	2.5	43	1.9	NG	91	160
Table A (results in bold and underlined)	NG	13	20	750	1.2	12.0	NG	750	40	225	NG	200	NG	NG	40	150	10	NG	200	600
< - less than the Method Detection Limit. NG - no guideline. All results are in µg/g dry wt.																				

Table C4.4: Coniston Parks

Station	Map ID	Soil Depth	Sample No.	Al	Sb	As	Ba	Be	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Mo	Ni	Se	Sr	V	Zn
Centennial Playground,Edward St																							
5030491 Play Structure	A	0-5 cm (sand)	20217	8500	1.6	< 5	43	< 0.5	< 0.8	4000	30	6	14	15000	3	3400	210	< 1.5	22	< 1	30	35	21
			20218	9300	< 0.8	< 5	51	< 0.5	< 0.8	4400	32	6	16	14000	3	3500	200	< 1.5	26	< 1	29	34	21
5030492 Baseball Infield	B	0-5 cm (soil)	20219	6500	< 0.8	< 5	32	< 0.5	< 0.8	6800	23	4	9	11000	2	3200	170	< 1.5	16	< 1	31	25	15
			20220	3900	< 0.8	< 5	20	< 0.5	< 0.8	4800	17	4	8.3	7400	2	2400	110	< 1.5	16	< 1	18	18	11
		5-10 cm (soil)	20221	3900	< 0.8	< 5	23	< 0.5	< 0.8	4800	18	4	9	7600	2	2700	110	< 1.5	16	< 1	15	17	11
			20222	4100	< 0.8	< 5	20	< 0.5	< 0.8	5500	17	4	8.2	7800	2	2700	110	< 1.5	14	< 1	19	18	9.8
5030493 Baseball Outfield	C	0-5 cm (soil)	20223	6900	< 0.8	< 5	33	< 0.5	< 0.8	2400	23	6	26	11000	5	2100	140	< 1.5	38	< 1	22	23	16
			20224	7500	< 0.8	< 5	36	< 0.5	< 0.8	2700	24	6	26	11000	6	2200	140	< 1.5	40	< 1	26	24	17
		5-10 cm (soil)	20225	7600	< 0.8	< 5	32	< 0.5	< 0.8	2800	22	5	25	10000	4	2100	140	< 1.5	36	< 1	28	24	14
			20226	8600	< 0.8	< 5	41	< 0.5	< 0.8	3300	26	5	25	11000	5	2300	150	< 1.5	34	< 1	32	26	16
		10-20 cm (soil)	20227	8900	< 0.8	< 5	53	< 0.5	< 0.8	4200	28	6	28	12000	5	3000	160	< 1.5	36	< 1	30	28	18
			20228	8400	< 0.8	< 5	46	< 0.5	< 0.8	3100	27	5	27	12000	5	2600	150	< 1.5	35	< 1	28	26	16
Community Centre Field,Government R																							
5030502 Greenspace	A	0-5 cm (soil)	20255	11000	< 0.8	< 5	81	< 0.5	< 0.8	6300	34	7	49	15000	9	3300	270	< 1.5	68	< 1	45	31	28
			20256	11000	< 0.8	< 5	48	< 0.5	< 0.8	5900	36	7	39	14000	8	3100	290	< 1.5	60	< 1	45	30	32
		5-10 cm (soil)	20257	11000	< 0.8	< 5	54	< 0.5	< 0.8	6400	38	7	57	15000	9	3200	260	< 1.5	74	< 1	46	32	28
			20258	12000	< 0.8	< 5	52	< 0.5	< 0.8	6000	37	8	64	14000	9	3300	260	< 1.5	92	< 1	46	32	29
		10-20 cm (soil)	20259	9200	< 0.8	< 5	42	< 0.5	< 0.8	4800	30	8	81	14000	8	3200	220	< 1.5	110	< 1	35	28	27
			20260	9900	< 0.8	< 5	43	< 0.5	< 0.8	5700	32	6	87	15000	6	3200	240	< 1.5	72	< 1	37	30	26
East End Ballfield -East End Park,East Street																							
5030498 Baseball Infield	A	0-5 cm (soil)	20247	8400	< 0.8	17	36	< 0.5	< 0.8	3300	24	17	300	15000	15	2200	150	< 1.5	350	1	33	26	20
			20248	8100	< 0.8	15	40	< 0.5	< 0.8	3300	24	16	290	15000	14	2100	160	< 1.5	340	2	34	26	21
5030499 Baseball Outfield	B	0-5 cm (soil)	20249	6900	< 0.8	11	31	< 0.5	< 0.8	3000	21	12	230	13000	11	1900	140	< 1.5	260	1	33	24	18
			20250	5500	< 0.8	10	26	< 0.5	< 0.8	2000	19	12	220	12000	11	1600	110	< 1.5	260	1	22	21	16
East End Playground,East Street																							
5030500 Play Structure	A	0-5 cm (sand)	20251	5600	< 0.8	< 5	24	< 0.5	< 0.8	2400	25	6	29	13000	5	2700	160	< 1.5	37	< 1	22	27	19
			20252	6100	< 0.8	10	30	< 0.5	< 0.8	2700	23	7	29	13000	5	2800	160	< 1.5	40	< 1	26	26	18
5030501 Play Structure	B	0-5 cm (sand)	20253	5500	< 0.8	< 5	27	< 0.5	< 0.8	2300	24	6	11	11000	3	2900	150	< 1.5	20	< 1	24	25	15
			20254	6800	< 0.8	< 5	32	< 0.5	< 0.8	2100	24	6	12	11000	3	2900	160	< 1.5	20	< 1	24	25	16
Ed Sox Ballfield,Second Ave. & Cedar St.																							
5030496 Baseball Infield	A	0-5 cm (soil)	20239	7300	< 0.8	< 5	28	< 0.5	< 0.8	5900	28	4	17	10000	4	2800	210	< 1.5	38	< 1	50	26	19
			20240	7400	< 0.8	< 5	26	< 0.5	< 0.8	6200	26	4	17	10000	4	2900	200	< 1.5	38	< 1	51	25	20

Table F (results in bold)	NG	1.0	17	210	1.2	1.0	NG	71	21	85	NG	120	NG	NG	2.5	43	1.9	NG	91	160
Table A (results in bold and underlined)	NG	13	20	750	1.2	12.0	NG	750	40	225	NG	200	NG	NG	40	150	10	NG	200	600
< - less than the Method Detection Limit. NG - no guideline. All results are in µg/g dry wt.																				

Table C4.4: Coniston Parks

Station	Map ID	Soil Depth	Sample No.	Al	Sb	As	Ba	Be	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Mo	Ni	Se	Sr	V	Zn
5030497 Baseball Outfield	B	0-5 cm (soil)	20241	9300	< 0.8	7	39	< 0.5	< 0.8	14000	28	14	110	13000	16	8800	190	< 1.5	230	< 1	35	27	39
			20242	9900	< 0.8	6	47	< 0.5	< 0.8	18000	29	12	88	14000	17	10000	310	< 1.5	160	< 1	42	27	45
		5-10 cm (soil)	20243	9500	< 0.8	12	38	< 0.5	< 0.8	13000	26	15	180	15000	10	8100	140	< 1.5	310	< 1	33	28	26
			20244	11000	< 0.8	9	40	< 0.5	< 0.8	10000	28	13	73	14000	8	6900	150	< 1.5	220	< 1	36	30	26
		10-20 cm (soil)	20245	9100	< 0.8	10	38	< 0.5	< 0.8	4000	26	16	200	14000	10	2600	140	< 1.5	460	< 1	34	27	23
			20246	9000	< 0.8	20	39	< 0.5	< 0.8	5000	27	18	330	15000	12	3400	140	< 1.5	550	< 1	32	27	28
Second Ave. Park, Junction of 2nd Ave. & Government St.																							
5030494 Green Space	A	0-5 cm (soil)	20229	7600	< 0.8	13	35	< 0.5	< 0.8	6300	25	24	470	14000	20	2600	140	< 1.5	610	1	31	24	36
			20230	8100	< 0.8	16	41	< 0.5	1	9400	28	38	610	17000	40	3600	180	< 1.5	860	2	33	26	48
		5-10 cm (soil)	20231	6400	< 0.8	6	28	< 0.5	< 0.8	2600	22	8	89	9600	5	2000	120	< 1.5	200	< 1	23	22	15
			20232	7200	< 0.8	< 5	30	< 0.5	< 0.8	3000	23	9	120	10000	5	2100	130	< 1.5	210	< 1	27	24	16
5030495 Green Space	B	0-5 cm (soil)	20233	7900	< 0.8	14	38	< 0.5	0.8	6700	26	29	450	15000	28	2700	180	< 1.5	640	2	31	25	41
			20234	7700	< 0.8	19	46	< 0.5	1.3	9400	26	43	620	18000	42	3400	200	< 1.5	940	2	32	25	58
		5-10 cm (soil)	20235	6600	< 0.8	6	31	< 0.5	< 0.8	3300	23	8	120	10000	6	2000	130	< 1.5	210	< 1	27	23	16
			20236	8900	< 0.8	8	41	< 0.5	< 0.8	4200	26	11	180	12000	8	2200	150	< 1.5	250	< 1	36	27	24
		10-15 cm (soil)	20237	8900	< 0.8	< 5	45	< 0.5	< 0.8	3600	27	5	52	11000	5	2200	150	< 1.5	90	< 1	36	26	14
			20238	9700	< 0.8	< 5	45	< 0.5	< 0.8	3400	26	6	69	11000	5	2100	130	< 1.5	110	< 1	35	26	17

Table F (results in bold)	NG	1.0	17	210	1.2	1.0	NG	71	21	85	NG	120	NG	NG	2.5	43	1.9	NG	91	160
Table A (results in bold and underlined)	NG	13	20	750	1.2	12.0	NG	750	40	225	NG	200	NG	NG	40	150	10	NG	200	600
< - less than the Method Detection Limit. NG - no guideline. All results are in µg/g dry wt.																				

Table C4.5: Falconbridge Parks																								
Station	Map ID	Soil Depth	Sample No.	Al	Sb	As	Ba	Be	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Mo	Ni	Se	Sr	V	Zn	
Centennial Park,63 Edison Street (* - 5030474 and 5030475 were also sampled separately as part of Teddy Bear Daycare)																								
5030474 Play Structure	A	0-5 cm (sand)	20147	5000	< 0.8	< 5	20	< 0.5	< 0.8	2400	24	6	18	12000	3	2800	150	< 1.5	26	< 1	21	29	15	
			20148	5200	< 0.8	< 5	21	< 0.5	< 0.8	2600	24	6	19	13000	4	2700	160	< 1.5	30	< 1	23	30	16	
5030475 Play Structure	B	0-5 cm (sand)	20149	4700	< 0.8	< 5	21	< 0.5	< 0.8	2400	22	5	12	11000	6	2400	140	< 1.5	20	< 1	21	24	12	
			20150	4300	< 0.8	< 5	17	< 0.5	< 0.8	2200	19	4	10	9800	2	2300	130	< 1.5	17	< 1	19	22	12	
5030476 Green Space	C	0-5 cm (soil)	20151	9600	< 0.8	<u>71</u>	44	< 0.5	<u>2.8</u>	10000	37	<u>86</u>	<u>1300</u>	27000	<u>67</u>	3400	260	< 1.5	<u>1800</u>	<u>3</u>	33	37	79	
			20152	8200	< 0.8	<u>84</u>	45	< 0.5	<u>4.2</u>	13000	37	<u>130</u>	<u>1800</u>	31000	<u>110</u>	3700	230	<u>2.8</u>	<u>2500</u>	<u>4</u>	32	31	96	
		5-10 cm (soil)	20153	11000	< 0.8	<u>99</u>	42	< 0.5	<u>1.2</u>	9000	46	<u>30</u>	<u>610</u>	28000	<u>58</u>	3900	270	< 1.5	<u>680</u>	<u>3</u>	32	45	41	
			20154	9400	< 0.8	<u>101</u>	46	< 0.5	<u>1.4</u>	9000	32	<u>36</u>	<u>680</u>	21000	<u>69</u>	2500	240	< 1.5	<u>770</u>	<u>3</u>	34	35	39	
		10-20 cm (soil)	20155	14000	< 0.8	<u>63</u>	36	< 0.5	< 0.8	6400	<u>75</u>	<u>21</u>	<u>330</u>	38000	33	7000	280	2.2	<u>470</u>	<u>2</u>	28	59	41	
			20156	14000	< 0.8	<u>74</u>	46	< 0.5	< 0.8	7700	<u>68</u>	<u>25</u>	<u>370</u>	35000	38	6000	250	< 1.5	<u>550</u>	<u>3</u>	33	58	39	
5030477 Green Space	D	0-5 cm (soil)	20157	7700	< 0.8	<u>49</u>	28	< 0.5	<u>1.7</u>	7600	26	<u>57</u>	<u>830</u>	17000	44	2700	140	< 1.5	<u>1200</u>	<u>2</u>	30	27	47	
			20158	9300	< 0.8	<u>56</u>	43	< 0.5	<u>2.9</u>	9300	34	<u>72</u>	<u>1200</u>	22000	<u>65</u>	3000	160	2	<u>1500</u>	<u>3</u>	35	30	65	
		5-10 cm (soil)	20159	10000	< 0.8	<u>76</u>	44	< 0.5	< 0.8	6000	34	<u>26</u>	<u>540</u>	20000	53	2200	140	< 1.5	<u>520</u>	<u>2</u>	39	32	31	
			20160	11000	< 0.8	<u>66</u>	42	< 0.5	< 0.8	6500	32	<u>24</u>	<u>490</u>	20000	49	2300	140	< 1.5	<u>500</u>	<u>2</u>	40	32	30	
		10-20 cm (soil)	20161	14000	< 0.8	<u>85</u>	58	< 0.5	< 0.8	6800	58	<u>30</u>	<u>500</u>	34000	48	4400	210	< 1.5	<u>610</u>	<u>3</u>	41	47	41	
			20162	12000	< 0.8	<u>66</u>	58	< 0.5	< 0.8	4700	50	<u>21</u>	<u>360</u>	26000	39	3300	170	< 1.5	<u>430</u>	<u>2</u>	37	40	34	
Central Park ,Longyear Drive																								
5030489 Green Space	A	0-5 cm (soil)	20209	9200	< 0.8	< 5	29	< 0.5	< 0.8	4200	29	15	44	12000	9	2100	150	< 1.5	<u>89</u>	< 1	34	25	17	
			20210	9500	< 0.8	6	30	< 0.5	< 0.8	4000	26	10	52	12000	10	2000	150	< 1.5	<u>83</u>	< 1	35	26	19	
		5-10 cm (soil)	20211	7900	< 0.8	6	29	< 0.5	< 0.8	2900	22	6	46	11000	9	2000	130	< 1.5	<u>50</u>	< 1	22	23	16	
			20212	8200	< 0.8	<u>29</u>	26	< 0.5	< 0.8	3100	23	6	32	11000	8	1900	130	< 1.5	<u>43</u>	< 1	26	23	14	
		10-20 cm (soil)	20213	8200	< 0.8	10	29	< 0.5	< 0.8	2500	23	8	<u>70</u>	13000	11	2100	140	< 1.5	<u>62</u>	< 1	23	24	14	
			20214	11000	< 0.8	5	50	< 0.5	< 0.8	3700	27	6	55	13000	8	2600	180	< 1.5	<u>42</u>	< 1	32	30	23	
5030490 Play Structure	B	0-5 cm (sand)	20215	6900	< 0.8	5	37	< 0.5	< 0.8	3200	24	9	30	15000	4	3100	200	< 1.5	<u>44</u>	< 1	28	32	19	
			20216	6400	< 0.8	< 5	35	< 0.5	< 0.8	3100	28	9	30	15000	4	3200	190	< 1.5	<u>44</u>	< 1	28	34	19	
Dedication Park,unction of Parkinson &indsay Streets																								
5030488 Green Space	A	0-5 cm (soil)	20203	8800	< 0.8	10	28	< 0.5	< 0.8	3600	24	10	<u>88</u>	12000	13	1800	130	< 1.5	<u>120</u>	< 1	31	25	21	
			20204	9100	< 0.8	12	27	< 0.5	< 0.8	3500	26	11	<u>87</u>	13000	16	1800	140	< 1.5	<u>110</u>	< 1	32	26	26	
		5-10 cm (soil)	20205	8800	< 0.8	<u>31</u>	29	< 0.5	< 0.8	3100	26	18	<u>240</u>	16000	30	1800	140	< 1.5	<u>240</u>	1	30	26	22	
			20206	8800	< 0.8	11	26	< 0.5	< 0.8	3100	25	13	<u>160</u>	14000	32	1800	130	< 1.5	<u>190</u>	< 1	28	25	25	
		10-20 cm (soil)	20207	9400	< 0.8	<u>32</u>	32	< 0.5	< 0.8	3300	26	17	<u>250</u>	15000	28	1800	150	< 1.5	<u>260</u>	1	30	28	25	
			20208	10000	< 0.8	<u>61</u>	46	< 0.5	0.9	4300	32	<u>42</u>	<u>540</u>	23000	48	2000	160	< 1.5	<u>600</u>	1	34	30	46	

Table F (results in bold)	NG	1.0	17	210	1.2	1.0	NG	71	21	85	NG	120	NG	NG	2.5	43	1.9	NG	91	160
Table A (results in bold and underlined)	NG	13	20	750	1.2	12.0	NG	750	40	225	NG	200	NG	NG	40	150	10	NG	200	600
< - less than the Method Detection Limit. NG - no guideline. All results are in µg/g dry wt.																				

Table C4.5: Falconbridge Parks

Station	Map ID	Soil Depth	Sample No.	Al	Sb	As	Ba	Be	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Mo	Ni	Se	Sr	V	Zn
Falconbridge Ballfields,63 Edison Street																							
5030478 Baseball Outfield	A	0-5 cm (soil)	20163	10000	< 0.8	<u>38</u>	36	< 0.5	< 0.8	3400	39	23	<u>360</u>	22000	28	3100	170	1.6	<u>370</u>	2	26	35	32
			20164	9300	< 0.8	<u>49</u>	38	< 0.5	< 0.8	3500	39	28	<u>430</u>	22000	33	3200	170	1.8	<u>470</u>	2	22	33	38
		5-10 cm (soil)	20165	16000	1	<u>120</u>	50	< 0.5	< 0.8	3600	99	46	<u>880</u>	67000	54	8500	340	< 1.5	<u>880</u>	6	22	74	66
			20166	16000	1.5	<u>100</u>	50	< 0.5	1.1	4800	88	58	<u>950</u>	53000	63	7800	340	< 1.5	<u>1100</u>	4	27	67	67
		10-20 cm (soil)	20167	24000	< 0.8	<u>130</u>	47	< 0.5	< 0.8	5400	150	42	<u>750</u>	100000	49	14000	480	< 1.5	<u>860</u>	7	27	110	86
			20168	19000	< 0.8	<u>110</u>	56	< 0.5	< 0.8	7900	99	38	<u>710</u>	61000	46	9100	350	< 1.5	<u>990</u>	6	35	75	72
5030479 Baseball Infield	B	0-5 cm (soil)	20169	14000	1.2	<u>54</u>	43	< 0.5	< 0.8	7600	73	34	<u>480</u>	45000	27	6900	310	< 1.5	<u>690</u>	3	34	56	64
			20170	11000	< 0.8	<u>31</u>	38	< 0.5	< 0.8	3500	54	23	<u>300</u>	32000	23	5200	240	< 1.5	<u>400</u>	2	22	41	40
		5-10 cm (soil)	20171	23000	< 0.8	<u>110</u>	48	< 0.5	< 0.8	6700	140	28	<u>580</u>	100000	42	13000	460	< 1.5	<u>590</u>	8	32	110	88
			20172	22000	< 0.8	<u>100</u>	42	< 0.5	< 0.8	4300	140	30	<u>570</u>	99000	38	13700	480	< 1.5	<u>620</u>	7	23	98	76
		10-20 cm (soil)	20173	25000	< 0.8	<u>100</u>	45	< 0.5	< 0.8	5800	150	25	<u>500</u>	110000	42	15000	500	< 1.5	<u>490</u>	6	28	110	85
			20174	25000	< 0.8	<u>120</u>	50	< 0.5	< 0.8	4700	160	26	<u>480</u>	110000	43	15500	540	< 1.5	<u>530</u>	8	28	130	82
5030480 Baseball Outfield	C	0-5 cm (soil)	20175	11000	< 0.8	<u>36</u>	44	< 0.5	0.9	3500	40	27	<u>400</u>	21000	25	2800	170	< 1.5	<u>490</u>	1	32	35	31
			20176	9700	< 0.8	<u>29</u>	33	< 0.5	< 0.8	3500	37	21	<u>350</u>	20000	20	2900	170	< 1.5	<u>400</u>	1	30	34	30
		5-10 cm (soil)	20177	19000	< 0.8	<u>86</u>	62	< 0.5	< 0.8	6300	95	28	<u>510</u>	56000	33	7600	330	< 1.5	<u>600</u>	4	46	75	53
			20178	18000	< 0.8	<u>98</u>	57	< 0.5	< 0.8	6200	97	31	<u>580</u>	62000	37	7500	330	< 1.5	<u>690</u>	5	45	74	52
		10-20 cm (soil)	20179	20000	< 0.8	<u>89</u>	76	< 0.5	< 0.8	6400	100	24	<u>430</u>	56000	34	7900	350	< 1.5	<u>530</u>	3	46	77	52
			20180	19000	< 0.8	<u>85</u>	54	< 0.5	< 0.8	5600	100	16	<u>310</u>	61000	28	7900	340	< 1.5	<u>320</u>	4	42	79	45
5030481 Baseball Infield	D	0-5 cm (soil)	20181	6500	< 0.8	< 5	22	< 0.5	< 0.8	3100	26	8	55	13000	6	2600	160	< 1.5	<u>68</u>	< 1	27	26	21
			20182	9800	< 0.8	<u>39</u>	32	< 0.5	< 0.8	3400	59	15	100	41000	14	5200	250	< 1.5	<u>180</u>	2	27	51	31
		5-10 cm (soil)	20183	5900	< 0.8	7	23	< 0.5	< 0.8	2700	27	7	45	13000	5	2600	150	< 1.5	<u>56</u>	< 1	23	25	18
			20184	6700	< 0.8	10	22	< 0.5	< 0.8	3000	30	9	48	17000	7	2900	170	< 1.5	<u>79</u>	< 1	25	29	20
		10-20 cm (soil)	20185	11000	< 0.8	<u>56</u>	30	< 0.5	< 0.8	2600	79	20	220	52000	18	7100	280	< 1.5	<u>280</u>	4	16	57	59
			20186	17000	< 0.8	<u>101</u>	42	< 0.5	< 0.8	3100	120	27	270	89000	30	11000	410	< 1.5	<u>420</u>	4	22	93	61
Parkinson Playground,Parkinson St.																							
5030482 Play Structure	A	0-5 cm (sand)	20187	4700	< 0.8	< 5	19	< 0.5	< 0.8	2300	24	7	21	13000	6	2800	160	< 1.5	36	< 1	18	27	16
			20188	4900	< 0.8	< 5	22	< 0.5	< 0.8	2500	26	11	22	14000	8	2900	160	< 1.5	50	< 1	18	32	17
5030483 Play Structure	B	0-5 cm (sand)	20189	4800	< 0.8	< 5	17	< 0.5	< 0.8	2700	27	8	41	13000	4	2400	160	< 1.5	54	< 1	23	30	17
			20190	4200	< 0.8	6	16	< 0.5	< 0.8	2300	28	9	57	14000	6	2300	150	< 1.5	67	< 1	16	34	20
5030484 Play Structure	C	0-5 cm (sand)	20191	5300	< 0.8	< 5	23	< 0.5	< 0.8	2300	25	8	45	13000	4	3000	150	< 1.5	48	< 1	18	26	22
			20192	5700	< 0.8	< 5	28	< 0.5	< 0.8	2700	30	12	63	16000	6	3000	180	< 1.5	75	< 1	22	36	26
5030485 Play Structure	D	0-5 cm (sand)	20193	5900	< 0.8	<u>34</u>	27	< 0.5	< 0.8	2300	31	17	160	16000	22	2600	160	1.9	130	1	21	30	25
			20194	5300	< 0.8	<u>34</u>	25	< 0.5	< 0.8	1900	28	15	170	14000	24	2400	140	2.1	130	1	17	26	23
5030486 Play Structure	E	0-5 cm (sand)	20195	5100	< 0.8	18	24	< 0.5	< 0.8	2300	30	14	120	15000	11	2400	170	1.7	110	< 1	19	30	20

Table F (results in bold)	NG	1.0	17	210	1.2	1.0	NG	71	21	85	NG	120	NG	NG	2.5	43	1.9	NG	91	160
Table A (results in bold and underlined)	NG	13	20	750	1.2	12.0	NG	750	40	225	NG	200	NG	NG	40	150	10	NG	200	600
< - less than the Method Detection Limit.																				
NG - no guideline.																				
All results are in µg/g dry wt.																				

Table C4.5: Falconbridge Parks

Station	Map ID	Soil Depth	Sample No.	Al	Sb	As	Ba	Be	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Mo	Ni	Se	Sr	V	Zn
			20196	5800	< 0.8	<u>21</u>	26	< 0.5	< 0.8	2600	35	13	160	16000	12	2600	180	1.9	110	< 1	23	32	22
5030487 Green Space	F	0-5 cm (soil)	20197	8600	< 0.8	<u>24</u>	41	< 0.5	< 0.8	3400	34	18	180	15000	21	2500	180	1.6	<u>180</u>	< 1	34	30	25
			20198	8900	< 0.8	17	36	< 0.5	< 0.8	3600	37	18	160	14000	18	2500	180	2.2	<u>170</u>	< 1	35	29	25
		5-10 cm (soil)	20199	9000	< 0.8	<u>23</u>	46	< 0.5	< 0.8	3700	32	15	210	15000	17	2300	190	< 1.5	<u>210</u>	< 1	36	29	26
			20200	9400	< 0.8	<u>25</u>	44	< 0.5	< 0.8	3800	32	19	220	15000	20	2200	200	< 1.5	<u>300</u>	< 1	36	29	28
		10-20 cm (soil)	20201	8700	< 0.8	<u>22</u>	48	< 0.5	< 0.8	3300	29	12	120	15000	13	2300	200	< 1.5	<u>150</u>	< 1	32	30	21
			20202	6400	< 0.8	<u>24</u>	31	< 0.5	< 0.8	2800	22	13	140	13000	14	2300	170	< 1.5	<u>190</u>	< 1	23	27	17

Table F (results in bold)	NG	1.0	17	210	1.2	1.0	NG	71	21	85	NG	120	NG	NG	2.5	43	1.9	NG	91	160
Table A (results in bold and underlined)	NG	13	20	750	1.2	12.0	NG	750	40	225	NG	200	NG	NG	40	150	10	NG	200	600
< - less than the Method Detection Limit. NG - no guideline. All results are in µg/g dry wt.																				

Table C4.6: Copper Cliff Parks

Station	Map ID	Soil Depth	Sample No.	Al	Sb	As	Ba	Be	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Mo	Ni	Se	Sr	V	Zn
Copper Cliff (Nickel) Park,Godfrey & School Street																							
5030462 Baseball Infield	A	0-5 cm (soil)	20091	9100	< 0.8	5	53	< 0.5	< 0.8	7800	30	10	180	16000	11	5600	210	< 1.5	162	< 1	56	29	31
			20092	9100	< 0.8	5	58	< 0.5	< 0.8	8300	29	10	180	15000	12	5900	210	< 1.5	155	< 1	68	27	29
5030463 Baseball Outfield	B	0-5 cm (soil)	20093	8300	< 0.8	6	39	< 0.5	< 0.8	4000	27	14	430	13000	20	2700	190	< 1.5	350	2	32	26	28
			20094	7300	< 0.8	7	38	< 0.5	< 0.8	2700	25	9	250	13000	13	2700	150	< 1.5	205	2	17	24	24
		5-10 cm (soil)	20095	8600	< 0.8	7	37	< 0.5	< 0.8	5100	26	8	190	13000	13	3700	170	< 1.5	146	< 1	24	25	27
			20096	9300	< 0.8	5	43	< 0.5	< 0.8	4000	28	8	180	14000	10	3300	180	< 1.5	139	< 1	27	27	26
		10-20 cm (soil)	20097	18000	< 0.8	7	100	< 0.5	< 0.8	6200	44	12	160	21000	21	4600	260	< 1.5	183	< 1	51	39	42
			20098	19000	< 0.8	6	100	< 0.5	< 0.8	5900	45	10	140	20000	12	4700	270	< 1.5	141	< 1	52	42	38
5030464 Green Space	C	0-5 cm (soil)	20099	13000	< 0.8	8	70	< 0.5	1.4	8000	41	22	990	18000	37	3800	250	< 1.5	599	3	47	34	49
			20100	13000	< 0.8	9	76	< 0.5	1.2	6600	43	22	990	18000	36	3500	220	< 1.5	595	4	46	36	48
		5-10 cm (soil)	20101	13000	< 0.8	7	65	< 0.5	< 0.8	4400	34	9	190	16000	11	3000	200	< 1.5	153	< 1	43	34	32
			20102	14000	< 0.8	6	69	< 0.5	< 0.8	4700	34	10	190	17000	11	3200	190	< 1.5	178	< 1	44	34	32
		10-20 cm (soil)	20103	14000	< 0.8	7	73	< 0.5	< 0.8	3600	36	11	160	19000	12	3100	230	< 1.5	165	1	39	34	37
			20104	10000	< 0.8	< 5	52	< 0.5	< 0.8	2600	29	7	86	15000	8	2700	170	< 1.5	92	< 1	29	28	27
5030467 Green Space	D	0-5 cm (soil)	20117	10000	< 0.8	14	69	< 0.5	< 0.8	4300	44	21	660	28000	34	3600	180	< 1.5	490	4	30	34	52
			20118	9200	1	12	59	< 0.5	< 0.8	5800	38	19	640	24000	32	4000	180	< 1.5	450	4	30	31	48
		5-10 cm (soil)	20119	9100	< 0.8	6	36	< 0.5	< 0.8	4200	25	8	180	13000	10	2500	160	< 1.5	160	< 1	34	27	32
			20120	9100	< 0.8	< 5	32	< 0.5	< 0.8	4700	25	6	110	12000	9	2500	170	< 1.5	120	< 1	38	26	26
		10-20 cm (soil)	20121	13000	< 0.8	27	72	< 0.5	< 0.8	5100	36	18	540	20000	28	3000	210	< 1.5	600	2	43	33	40
			20122	13000	< 0.8	23	73	< 0.5	< 0.8	4600	35	13	370	18000	28	2700	200	< 1.5	370	2	43	32	34
Copper Cliff Lions Park,Power St.																							
5030470 Play Structure	A	0-5 cm (sand)	20135	6700	< 0.8	< 5	26	< 0.5	< 0.8	2900	34	10	54	16000	5	3900	200	< 1.5	47	< 1	24	32	51
			20136	8400	< 0.8	< 5	34	< 0.5	< 0.8	3900	36	10	65	19000	5	4200	230	< 1.5	58	< 1	32	40	23
5030471 Play Structure	B	0-5 cm (sand)	20137	9300	< 0.8	< 5	42	< 0.5	< 0.8	4100	34	9	64	17000	5	4300	230	< 1.5	47	< 1	35	37	24
			20138	8600	< 0.8	< 5	37	< 0.5	< 0.8	3600	31	10	57	16000	5	4100	210	< 1.5	53	< 1	31	33	23
5030472 Play Structure	C	0-5 cm (sand)	20139	11000	< 0.8	9	42	< 0.5	< 0.8	4300	39	14	210	20000	18	4600	210	< 1.5	240	2	36	38	28
			20140	9100	< 0.8	8	32	< 0.5	< 0.8	3700	36	13	210	19000	17	4500	200	2	190	2	31	34	28
5030473 Green Space	D	0-5 cm (soil)	20141	13000	< 0.8	8	67	< 0.5	< 0.8	11000	43	12	360	18000	20	5900	290	< 1.5	260	3	49	36	37
			20142	11000	< 0.8	8	52	< 0.5	< 0.8	8900	36	12	320	17000	16	4400	260	< 1.5	240	3	46	34	34
		5-10 cm (soil)	20143	12000	< 0.8	7	54	< 0.5	< 0.8	9500	36	10	210	18000	12	5400	250	< 1.5	150	2	47	34	32
			20144	9900	< 0.8	7	45	< 0.5	< 0.8	7800	32	8	86	17000	8	4500	210	< 1.5	88	1	40	31	27
		10-20 cm (soil)	20145	10000	< 0.8	13	49	< 0.5	< 0.8	5500	30	11	220	17000	13	3700	190	< 1.5	200	7	38	32	32
			20146	11000	< 0.8	< 5	62	< 0.5	< 0.8	5400	37	9	60	20000	6	4600	260	< 1.5	47	< 1	42	37	32
Diorite Playground,Diorite St.																							

Table F (results in bold)	NG	1.0	17	210	1.2	1.0	NG	71	21	85	NG	120	NG	NG	2.5	43	1.9	NG	91	160
Table A (results in bold and underlined)	NG	13	20	750	1.2	12.0	NG	750	40	225	NG	200	NG	NG	40	150	10	NG	200	600
< - less than the Method Detection Limit.																				
NG - no guideline.																				
All results are in µg/g dry wt.																				

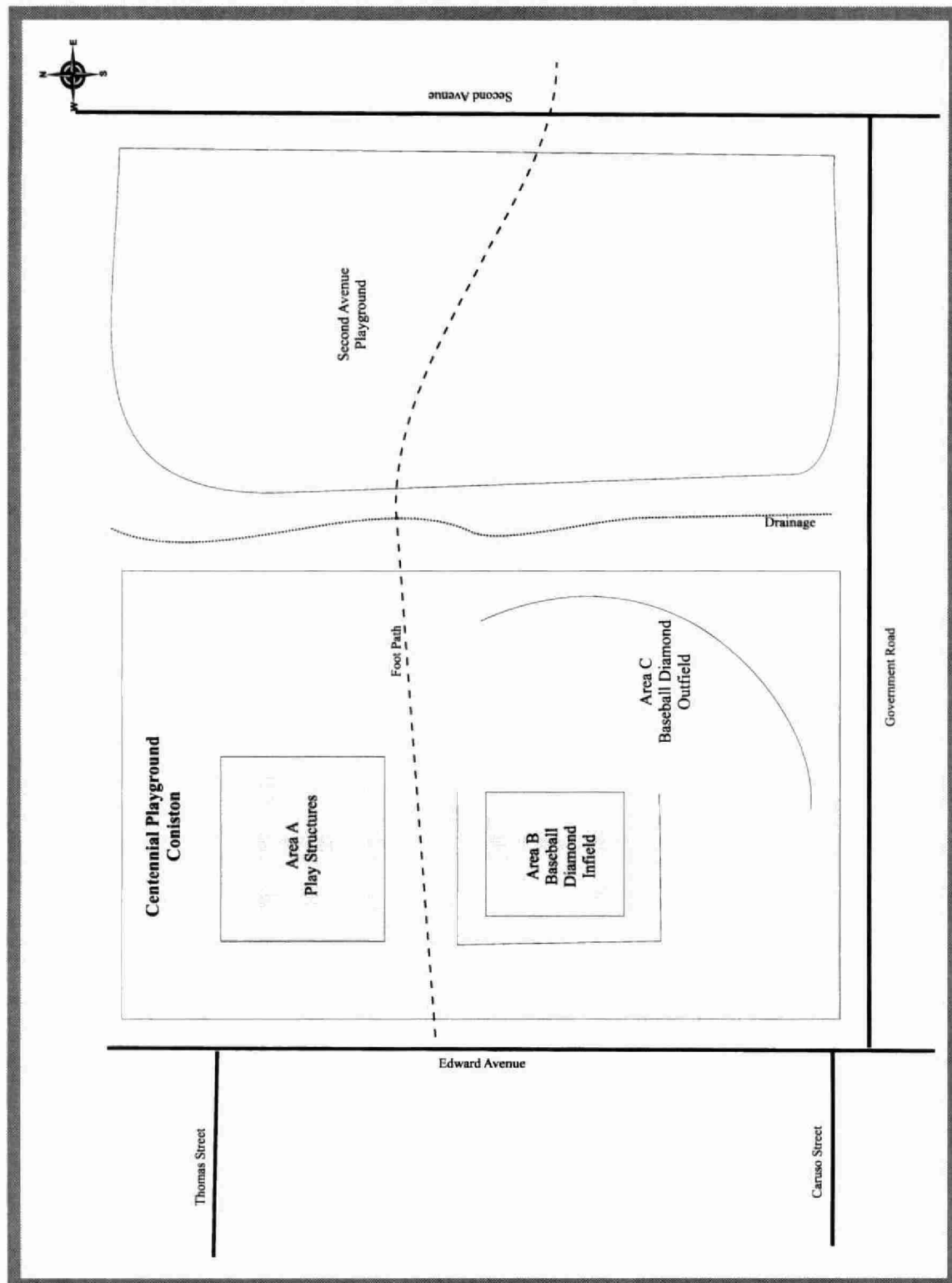
Table C4.6: Copper Cliff Parks

Station	Map ID	Soil Depth	Sample No.	Al	Sb	As	Ba	Be	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Mo	Ni	Se	Sr	V	Zn
5030852 Green Space	A	0-5 cm (soil)	17974	9900	< 0.8	6	37	< 0.5	1.1	9800	31	20	790	14000	30	4400	210	< 1.5	620	6	43	25	55
			17975	9500	< 0.8	< 5	34	< 0.5	< 0.8	7800	29	15	580	13000	20	3600	200	< 1.5	460	4	43	25	34
		5-10 cm (soil)	17976	12000	< 0.8	< 5	45	< 0.5	< 0.8	6200	36	9	230	15000	11	3700	220	< 1.5	180	2	50	33	34
			17977	10000	1.8	< 5	36	< 0.5	< 0.8	6200	33	9	170	15000	11	3400	220	< 1.5	160	1	44	31	33
		10-20 cm (soil)	17978	7200	< 0.8	< 5	26	< 0.5	< 0.8	4700	26	8	270	12000	12	3200	190	< 1.5	140	1	30	24	25
			17979	5400	< 0.8	< 5	17	< 0.5	< 0.8	3900	20	5	100	9400	6	2500	140	< 1.5	59	< 1	23	21	17
5030853 Play Structure	B	0-5 cm (sand)	17980	6800	< 0.8	< 5	28	< 0.5	< 0.8	3400	31	12	75	18000	5	4100	220	< 1.5	63	< 1	24	40	23
			17981	9200	< 0.8	< 5	29	< 0.5	< 0.8	4500	27	12	87	17000	6	5400	210	< 1.5	75	< 1	25	39	23
Gerry Mills Memorial Ball Park,School Street (* - 5030465 and 5030466 were also sampled separately as part of Copper Cliff School)																							
5030465* Baseball Outfield	A	0-5 cm (soil)	20105	9100	1.1	63	75	< 0.5	3.7	22000	42	100	3400	30000	120	3600	240	< 1.5	3649	21	43	27	150
			20106	11000	1	54	79	< 0.5	4	18000	54	93	3300	39000	130	3900	240	< 1.5	2906	22	41	35	140
		5-10 cm (soil)	20107	11000	1.8	101	61	< 0.5	1.1	9400	35	49	970	20000	44	2800	170	< 1.5	1339	13	38	30	56
			20108	11000	2.6	90	66	< 0.5	0.9	10000	35	50	910	19000	50	2800	160	< 1.5	1200	< 1	34	29	56
		10-20 cm (soil)	20109	8600	1.1	64	45	< 0.5	< 0.8	3600	25	15	190	13000	14	2200	150	< 1.5	310	6	29	26	30
			20110	7800	< 0.8	32	43	< 0.5	< 0.8	3400	21	10	130	12000	8	2000	170	1.9	200	2	27	25	25
5030466* Baseball Infield	B	0-5 cm (soil)	20111	8200	< 0.8	8	50	< 0.5	< 0.8	4200	31	11	300	14000	15	3100	180	< 1.5	300	2	38	29	31
			20112	7400	< 0.8	7	49	< 0.5	< 0.8	4300	29	11	350	13000	17	3000	170	< 1.5	290	2	35	27	30
		5-10 cm (soil)	20113	8200	< 0.8	13	37	< 0.5	< 0.8	3500	26	10	210	13000	11	2600	160	< 1.5	170	1	31	26	26
			20114	8100	< 0.8	10	38	< 0.5	< 0.8	3300	26	8	170	13000	10	2700	160	< 1.5	130	1	29	26	25
		10-20 cm (soil)	20115	8800	< 0.8	11	38	< 0.5	< 0.8	3100	24	9	150	13000	10	2200	150	< 1.5	160	1	30	26	26
			20116	8100	< 0.8	9	36	< 0.5	< 0.8	2700	25	8	130	13000	9	2400	150	2.4	130	1	25	25	26
Green Space Park,Junction of Serpentine and Subway R.																							
5030469 Green Space	A	0-5 cm (soil)	20129	10000	< 0.8	6	40	< 0.5	< 0.8	4700	33	12	340	13000	16	2400	180	< 1.5	340	2	38	29	29
			20130	9800	< 0.8	7	47	< 0.5	< 0.8	4300	29	15	430	14000	20	2400	180	< 1.5	400	2	38	28	30
		5-10 cm (soil)	20131	8500	< 0.8	< 5	32	< 0.5	< 0.8	3400	27	5	26	12000	7	2300	150	< 1.5	40	< 1	23	25	19
			20132	9500	< 0.8	< 5	30	< 0.5	< 0.8	4000	26	5	45	12000	10	2300	160	< 1.5	58	< 1	34	27	18
		10-20 cm (soil)	20133	11000	< 0.8	< 5	55	< 0.5	< 0.8	3900	34	7	25	15000	7	3400	200	< 1.5	37	< 1	33	31	21
			20134	12000	< 0.8	< 5	64	< 0.5	< 0.8	4400	38	7	29	17000	8	3800	230	< 1.5	40	< 1	39	35	24
Italian Commemorative Park,Junction of Serpentine and Subway R.																							
5030468 Green Space	A	0-5 cm (soil)	20123	12000	< 0.8	30	90	< 0.5	3	6300	64	88	4600	27000	120	4300	220	3.4	2800	20	38	36	110
			20124	11000	< 0.8	26	60	< 0.5	2.6	4500	50	79	4200	25000	120	3700	190	2.2	2300	22	39	33	87
		5-10 cm (soil)	20125	10000	< 0.8	< 5	59	< 0.5	< 0.8	6500	33	10	190	17000	9	5800	220	< 1.5	170	< 1	35	32	28
			20126	8600	< 0.8	< 5	45	< 0.5	< 0.8	7100	29	10	250	15000	10	5800	180	< 1.5	210	1	31	28	28
		10-20 cm (soil)	20127	9200	< 0.8	< 5	58	< 0.5	< 0.8	3400	34	9	110	16000	9	3700	230	< 1.5	110	< 1	30	30	27
			20128	7600	< 0.8	< 5	40	< 0.5	< 0.8	4300	25	7	130	14000	8	3400	180	2.4	86	< 1	32	27	21

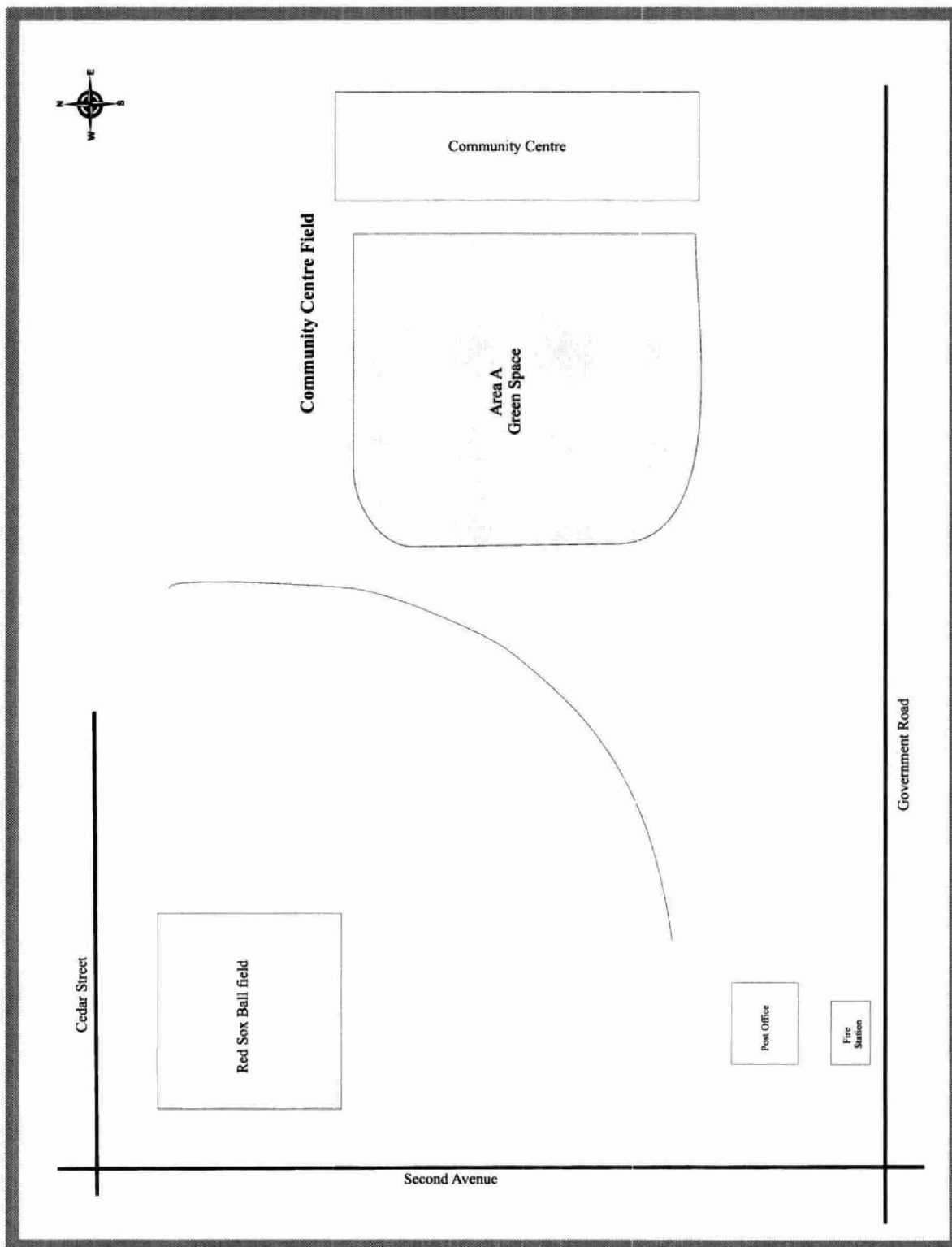
Table F (results in bold)	NG	1.0	17	210	1.2	1.0	NG	71	21	85	NG	120	NG	NG	2.5	43	1.9	NG	91	160
Table A (results in bold and underlined)	NG	13	20	750	1.2	12.0	NG	750	40	225	NG	200	NG	NG	40	150	10	NG	200	600
< - less than the Method Detection Limit. NG - no guideline. All results are in µg/g dry wt.																				

5. PARK SAMPLING MAPS

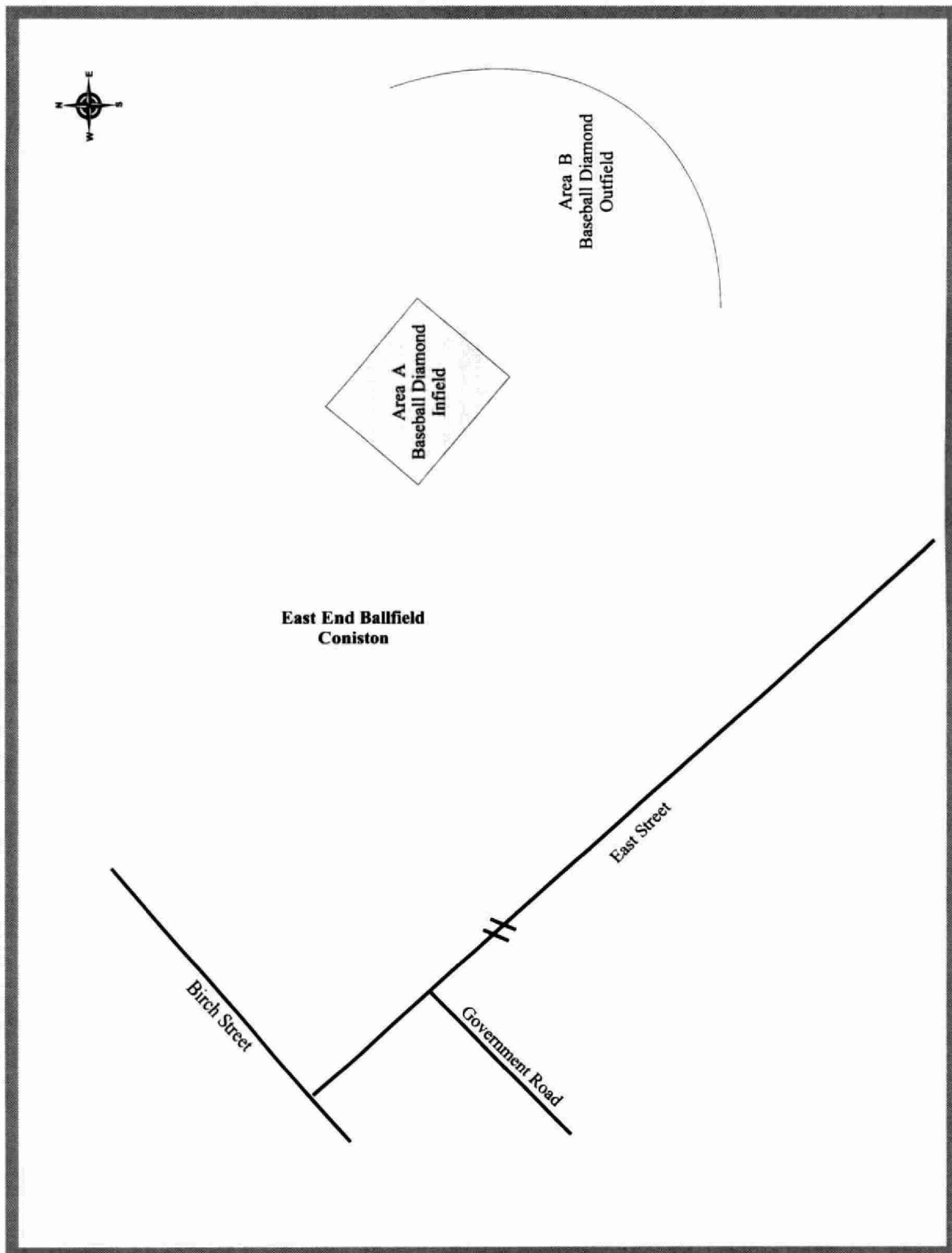
5.1 Coniston Park Maps



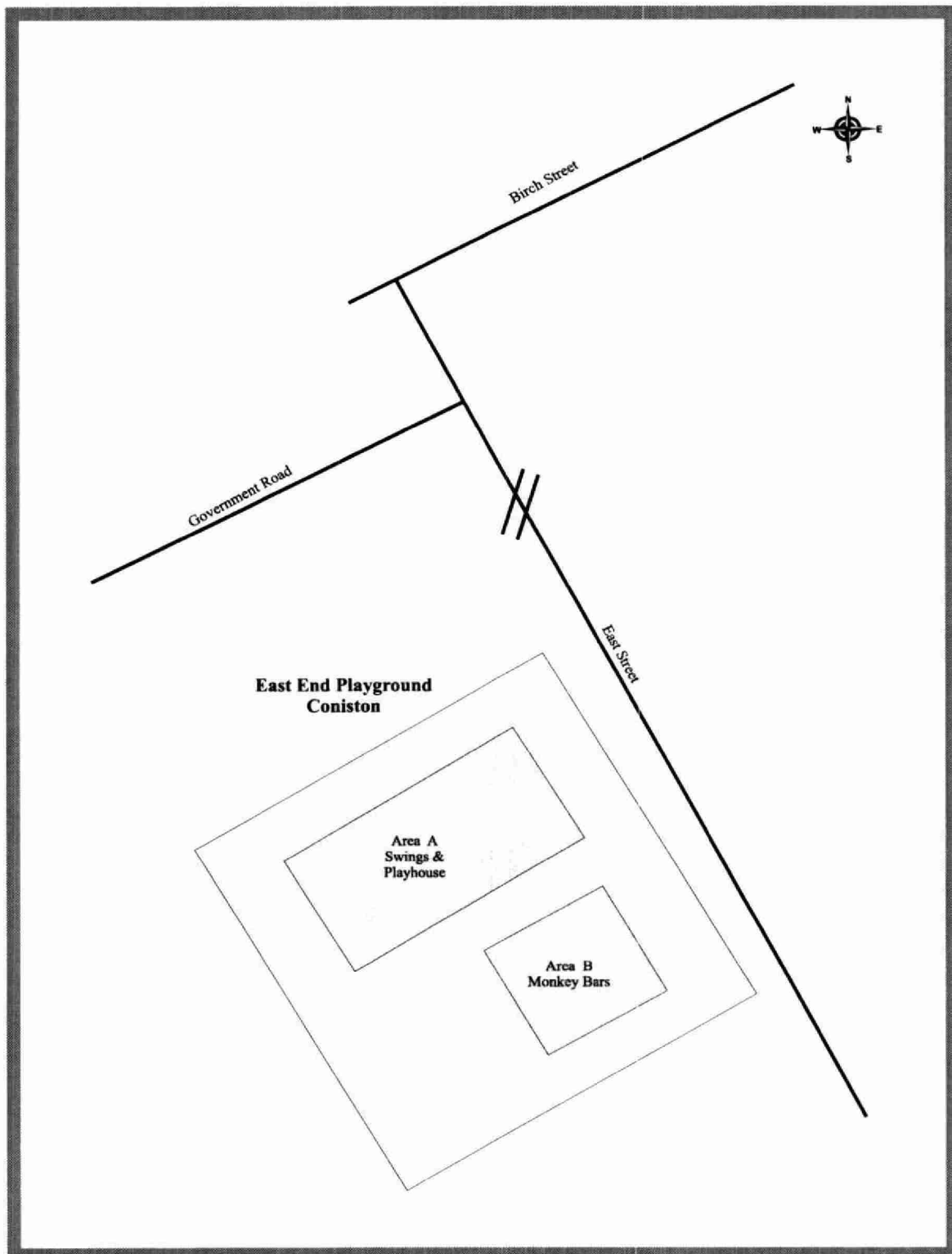
Map C5.1.1: Centennial Playground, Coniston - 2001.



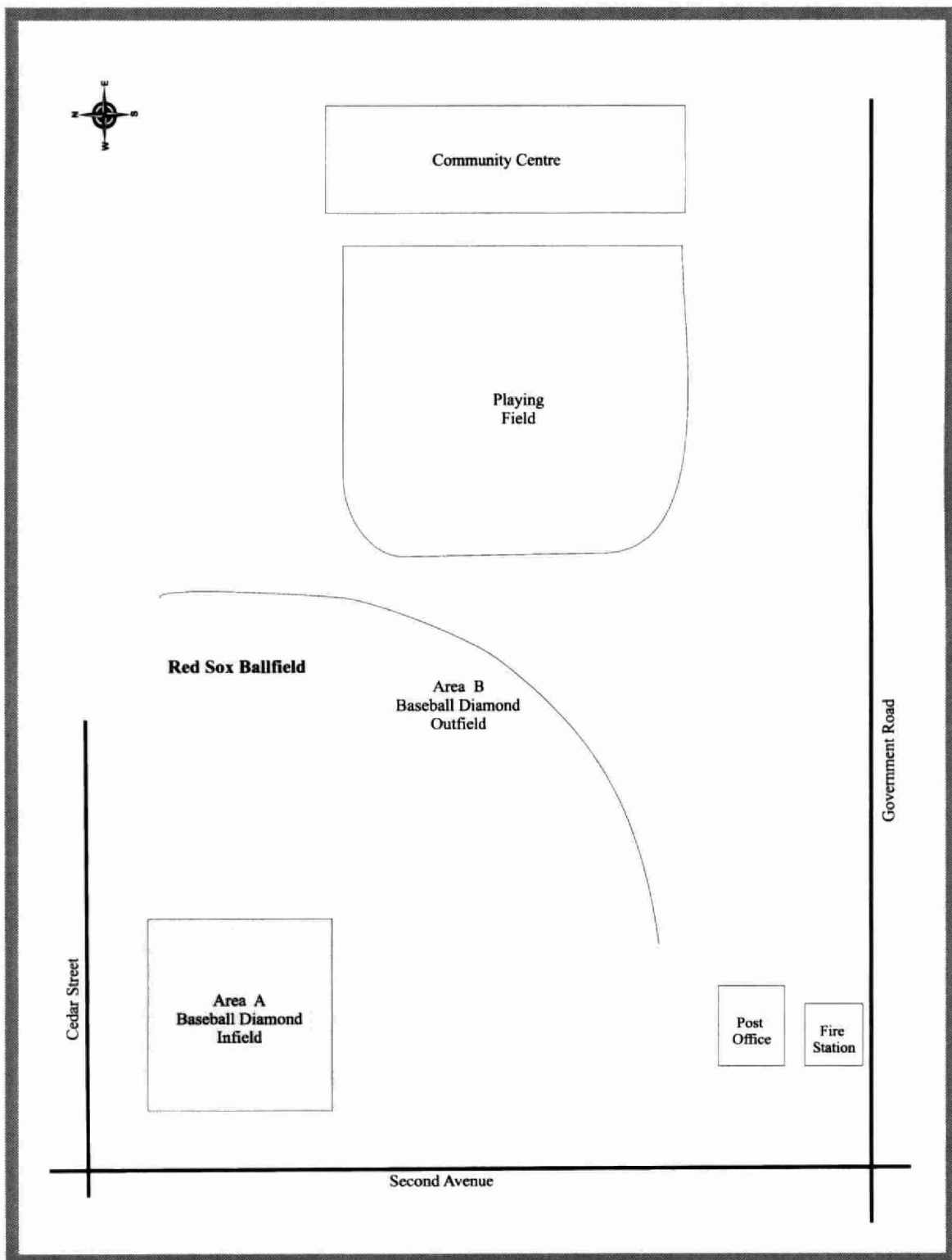
Map C5.1.2: Community Centre Field, Coniston - 2001.



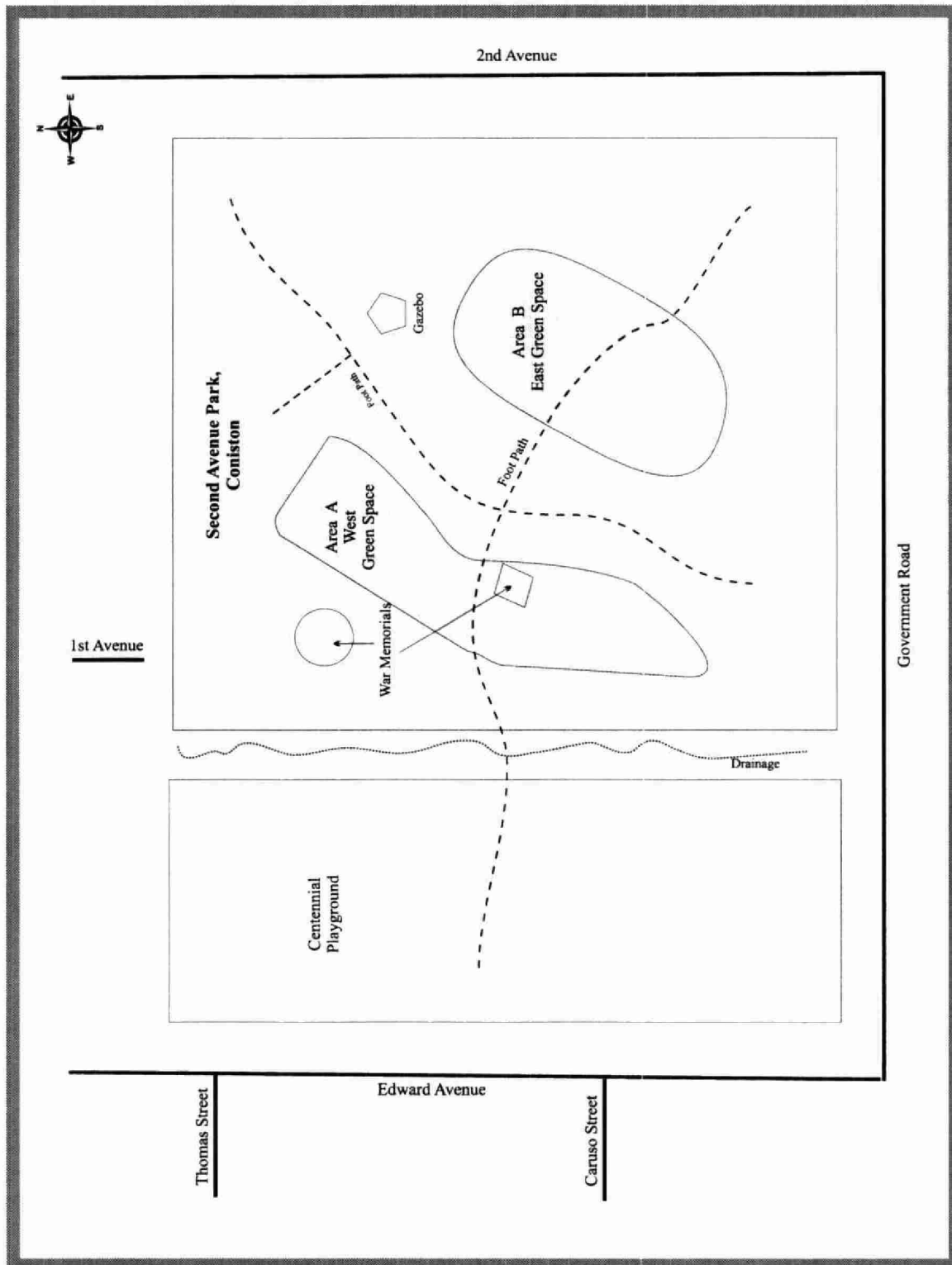
Map C5.1.3: East End Ballfield, Coniston - 2001.



Map C5.1.4: East End Playground, Coniston - 2001.

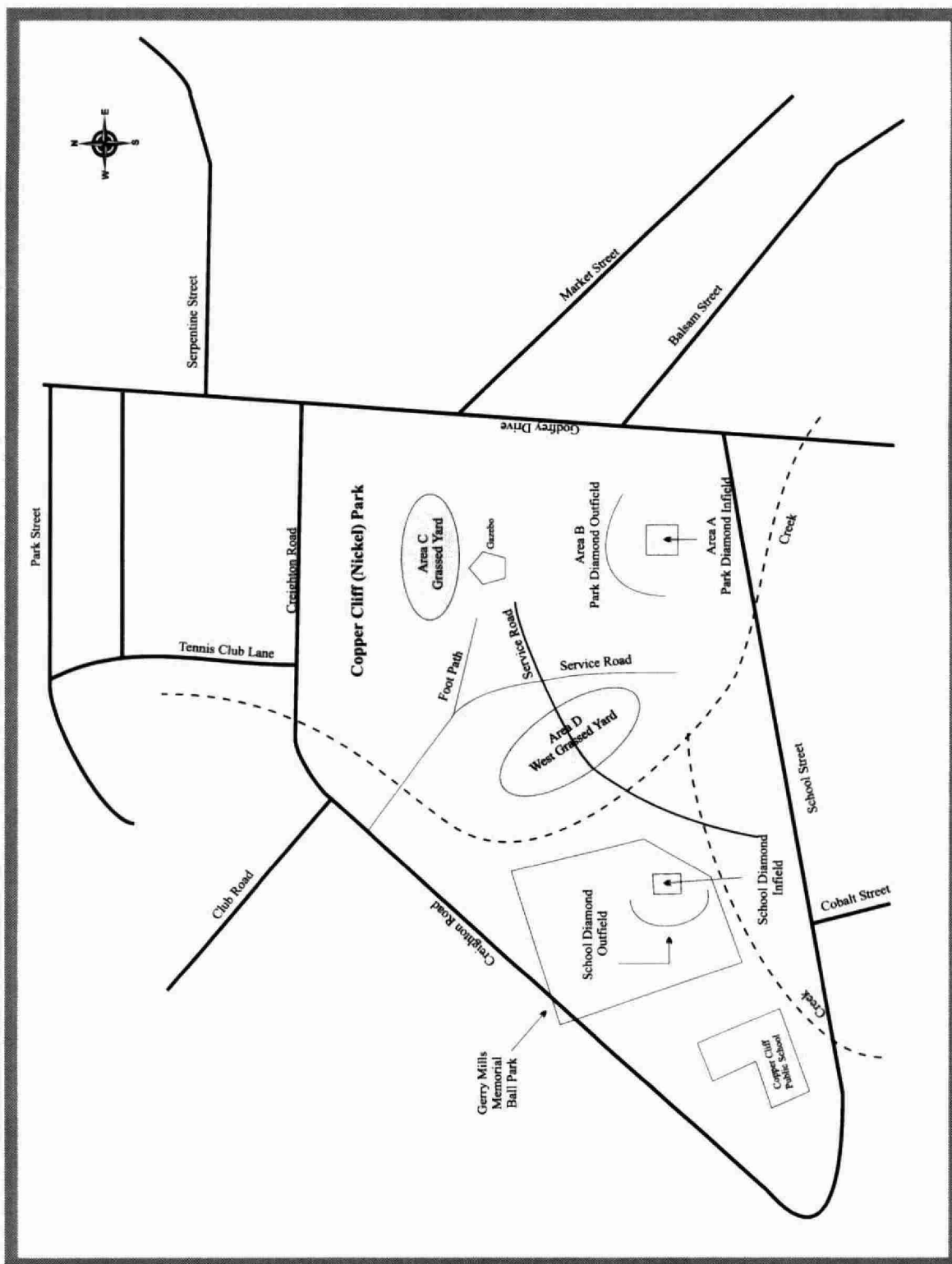


Map C5.1.5: Red Sox Ballfield, Coniston - 2001.

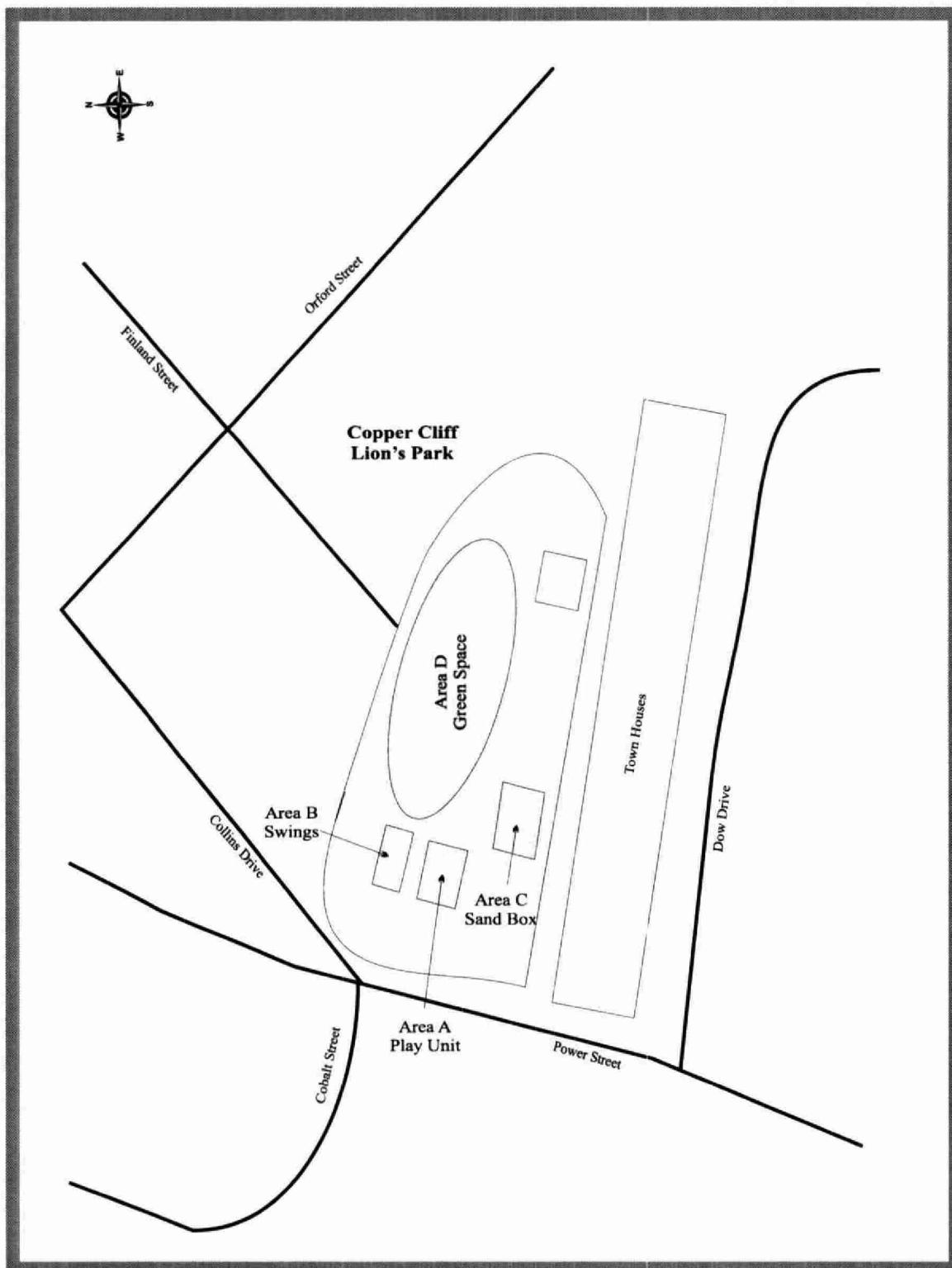


Map C5.1.6: Second Avenue Park, Coniston - 2001.

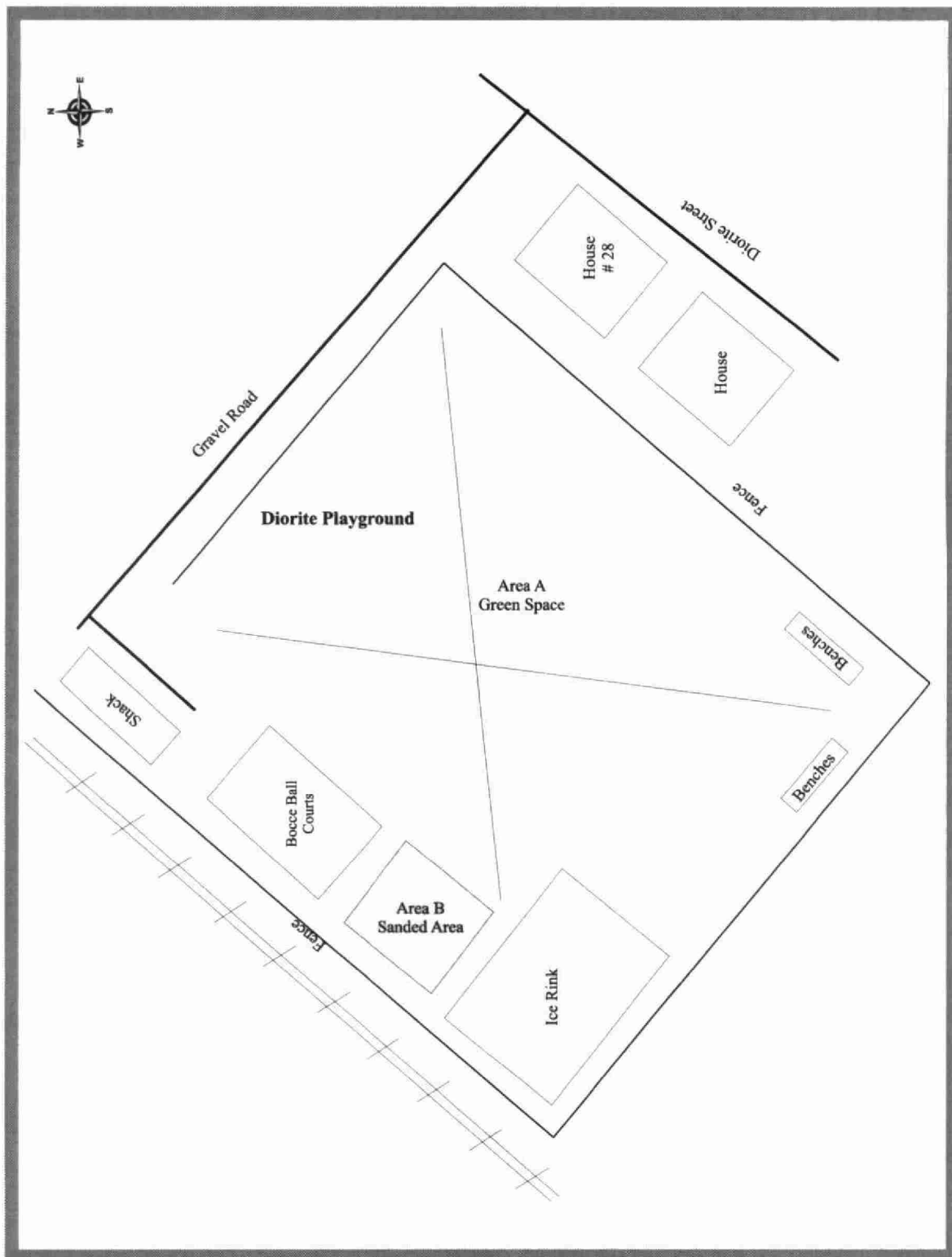
5.2 Copper Cliff Park Maps



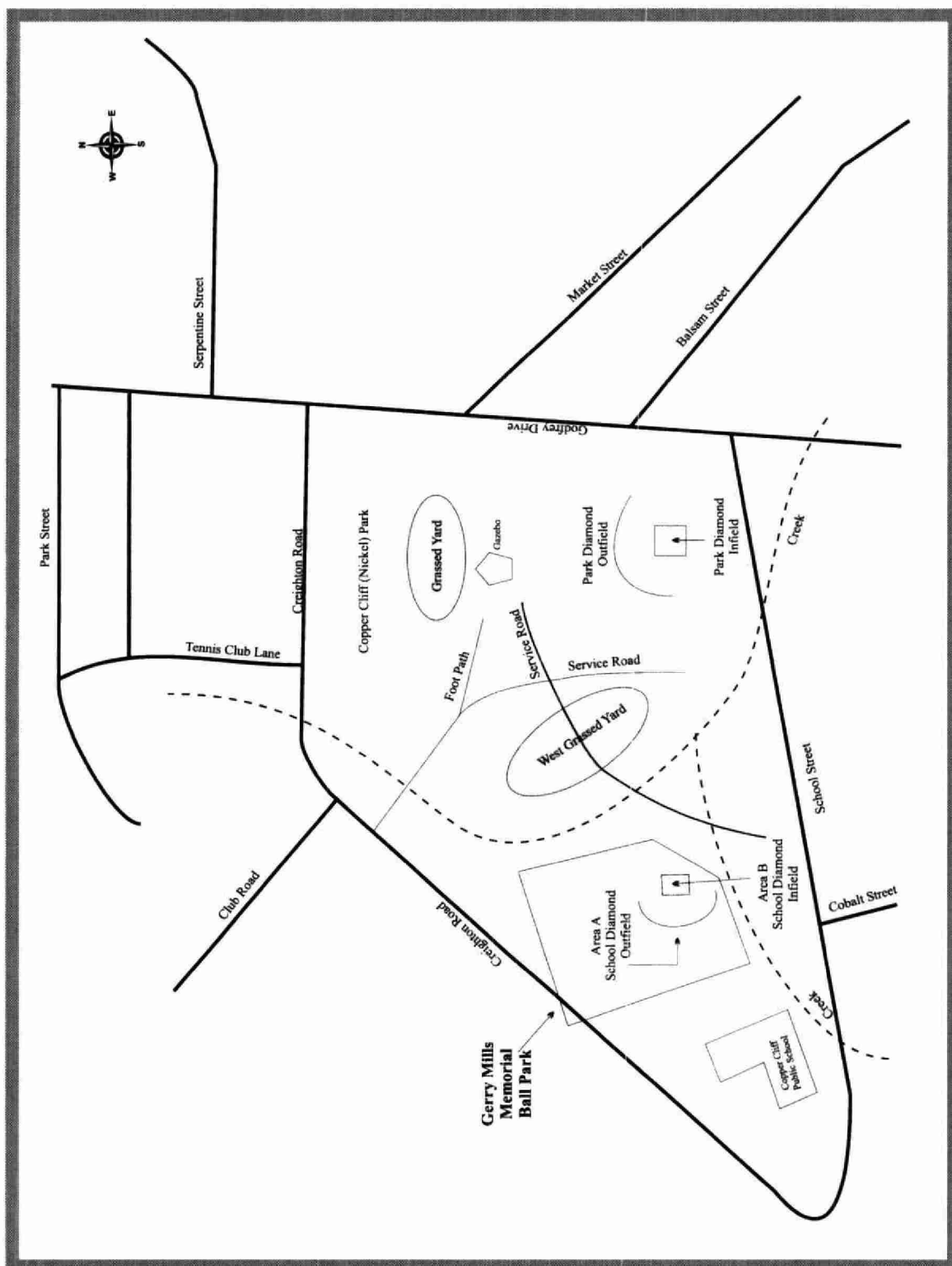
Map C5.2.1: Copper Cliff (Nickel) Park, Copper Cliff - 2001.



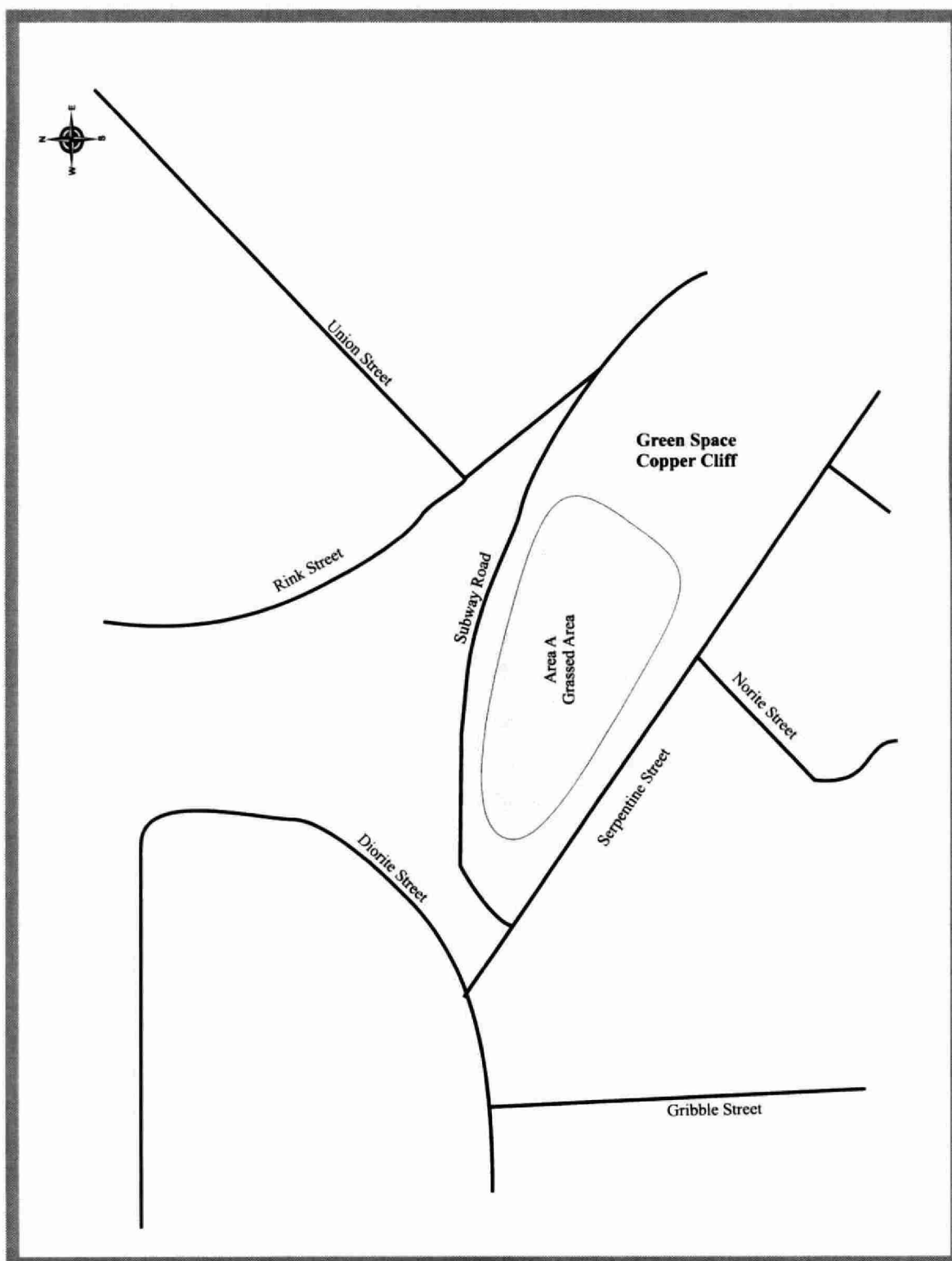
Map C5.2.2: Copper Cliff Lion's Park, Copper Cliff - 2001.



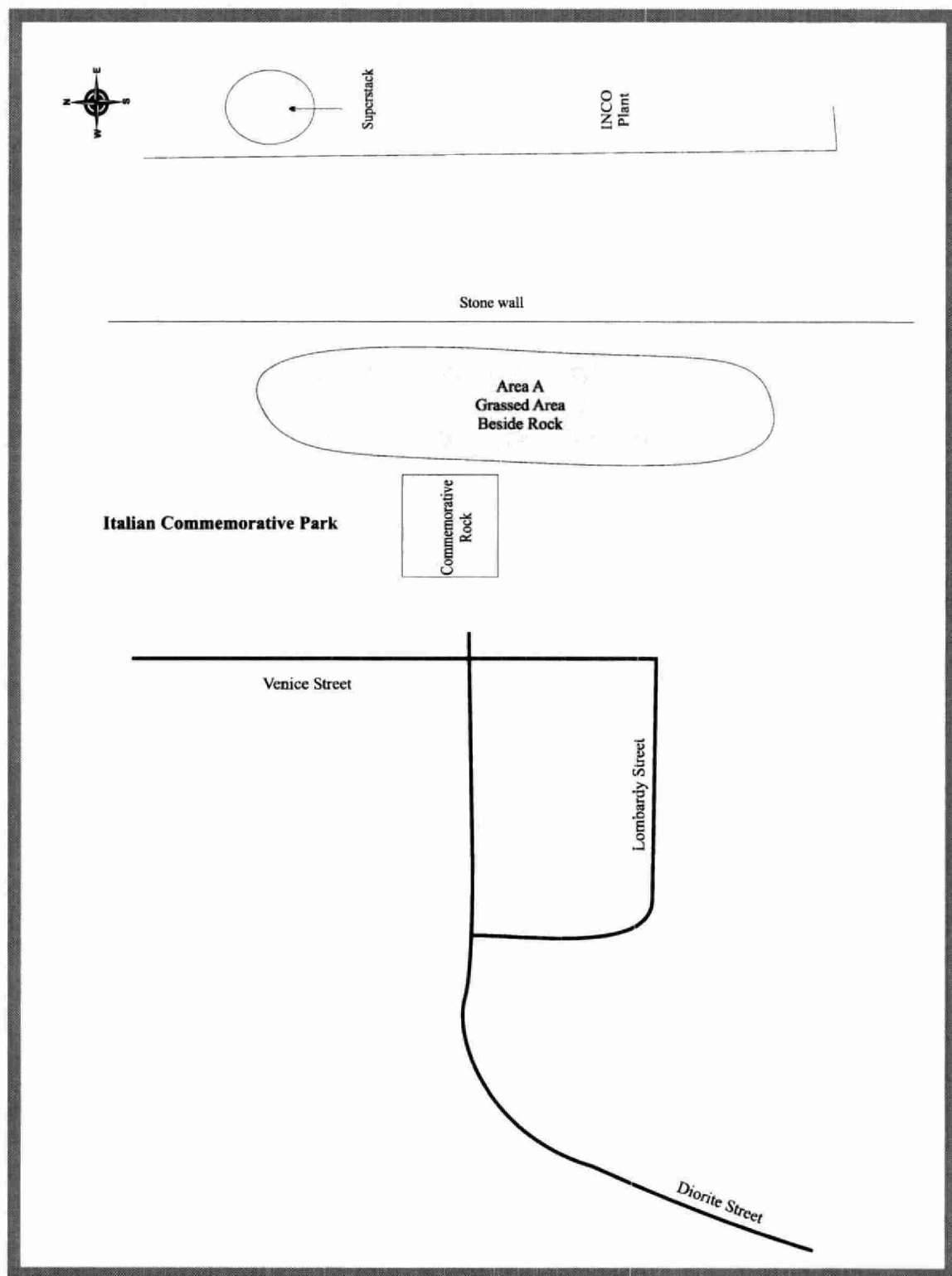
Map C5.2.3: Diorite Playground, Copper Cliff - 2001.



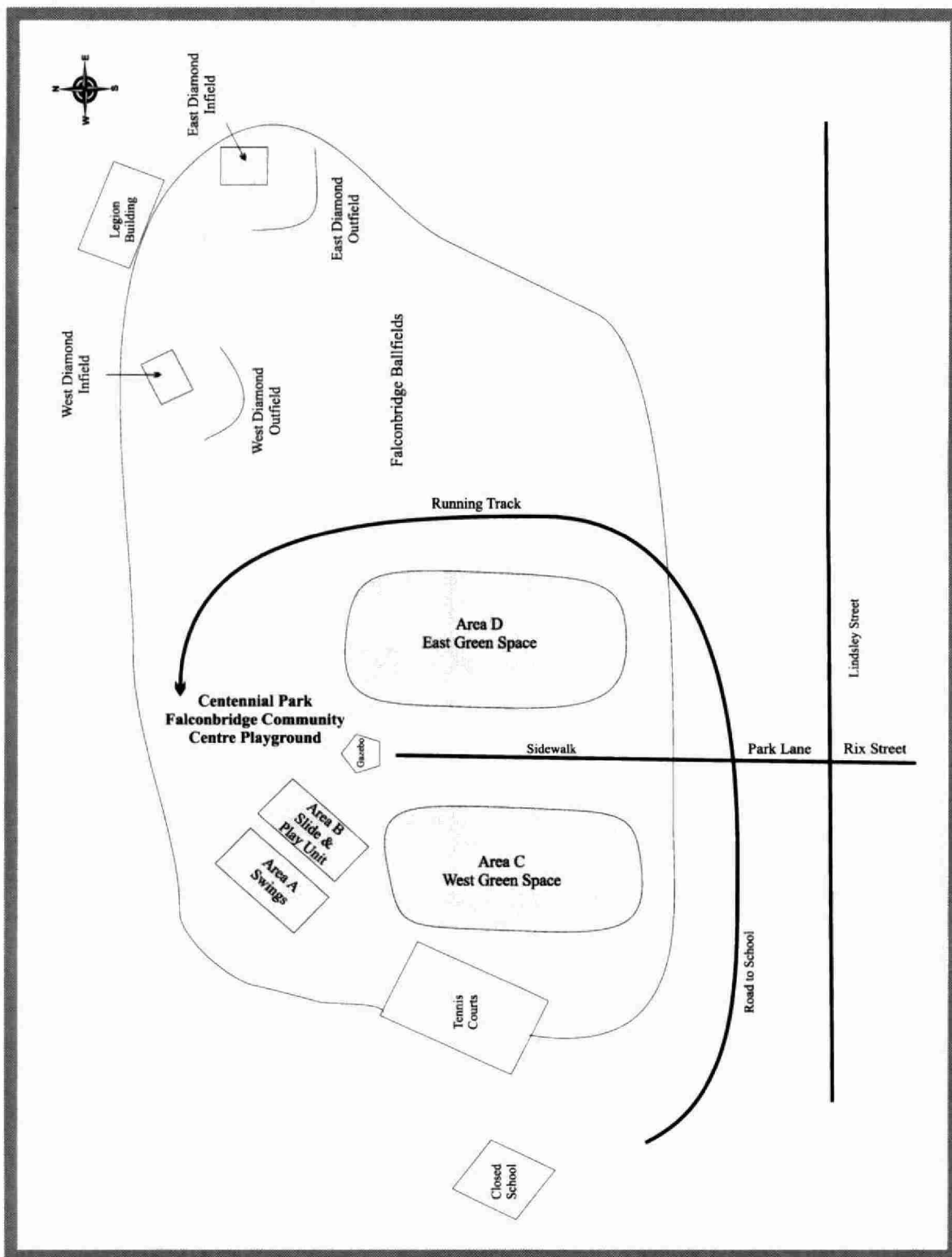
Map C5.2.4: Gerry Mills Memorial Ball Park, Copper Cliff - 2001.

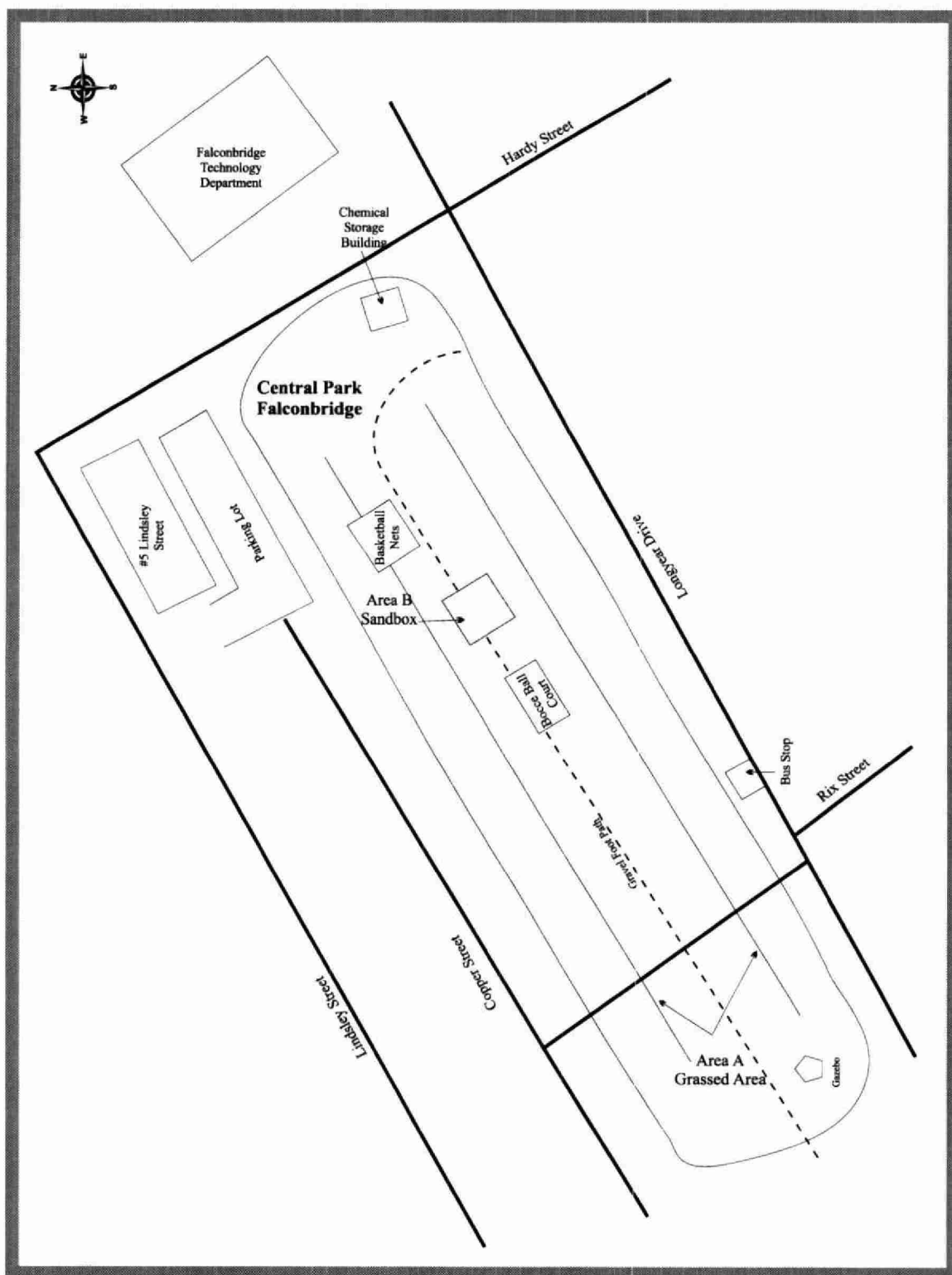


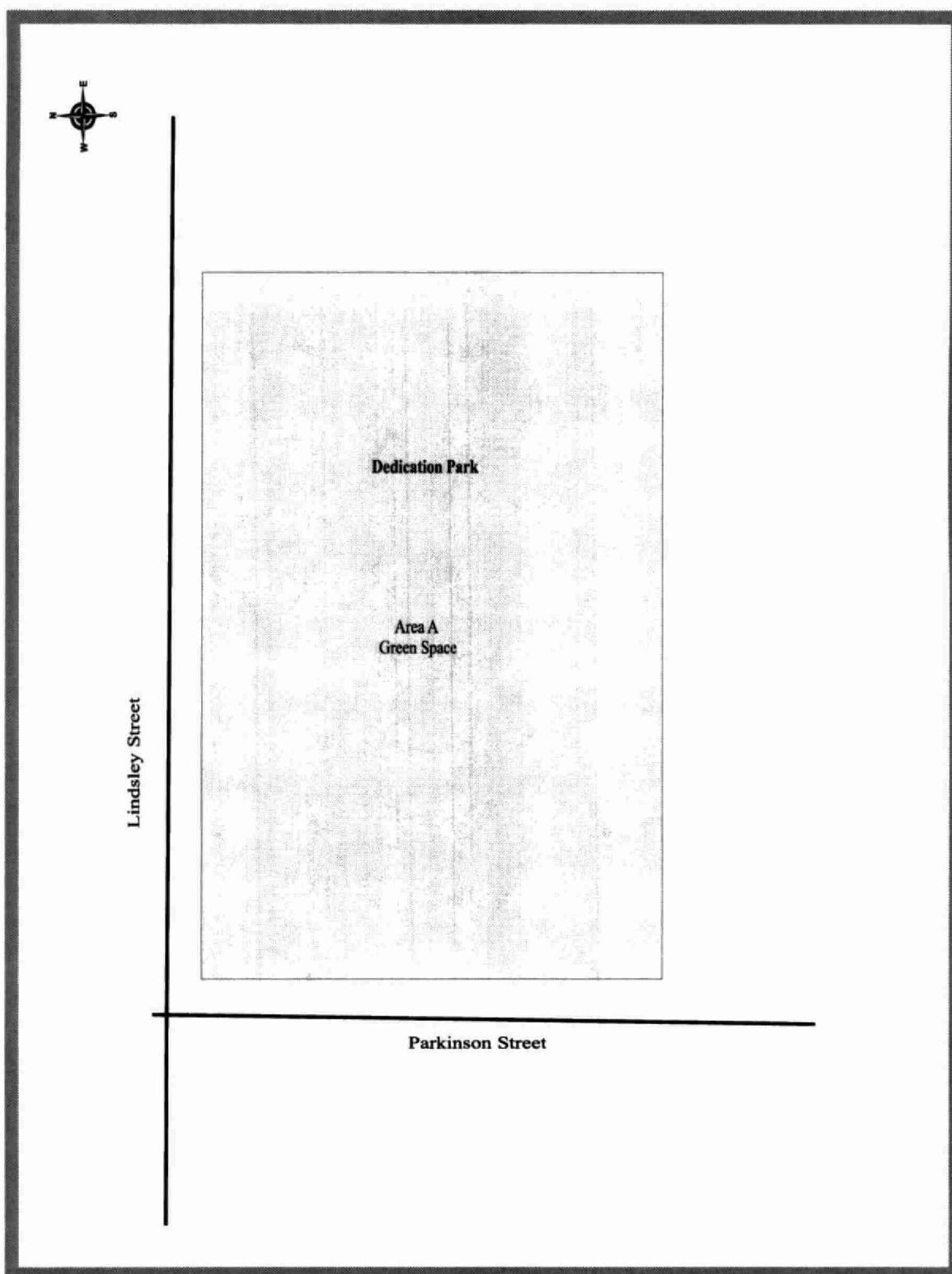
Map C5.2.5: Green Space Park, Copper Cliff - 2001.



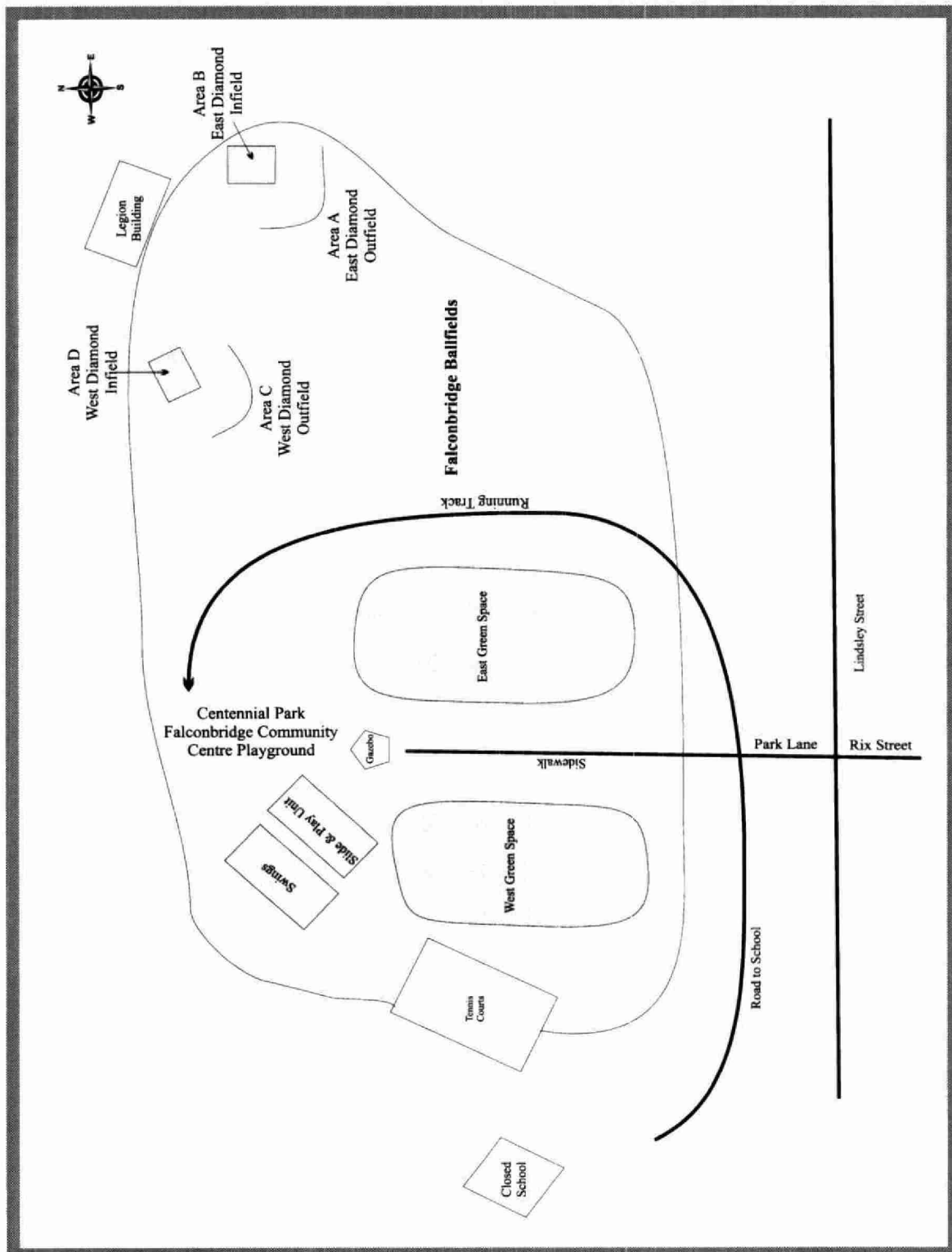
Map C5.2.6: Italian Commemorative Park, Copper Cliff - 2001.

5.3 Falconbridge Park Maps**Map C5.3.1: Centennial Park, Falconbridge - 2001.**

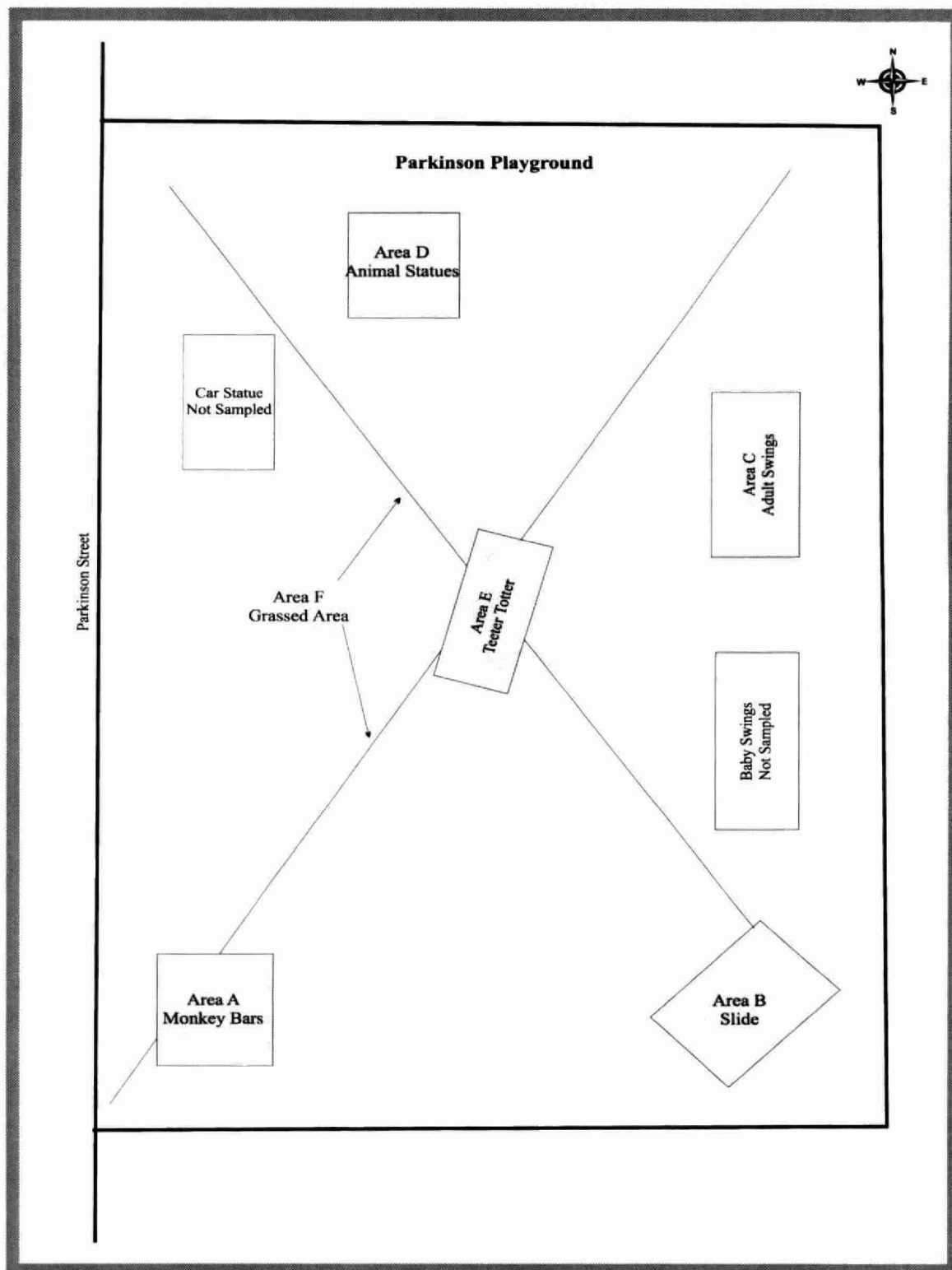




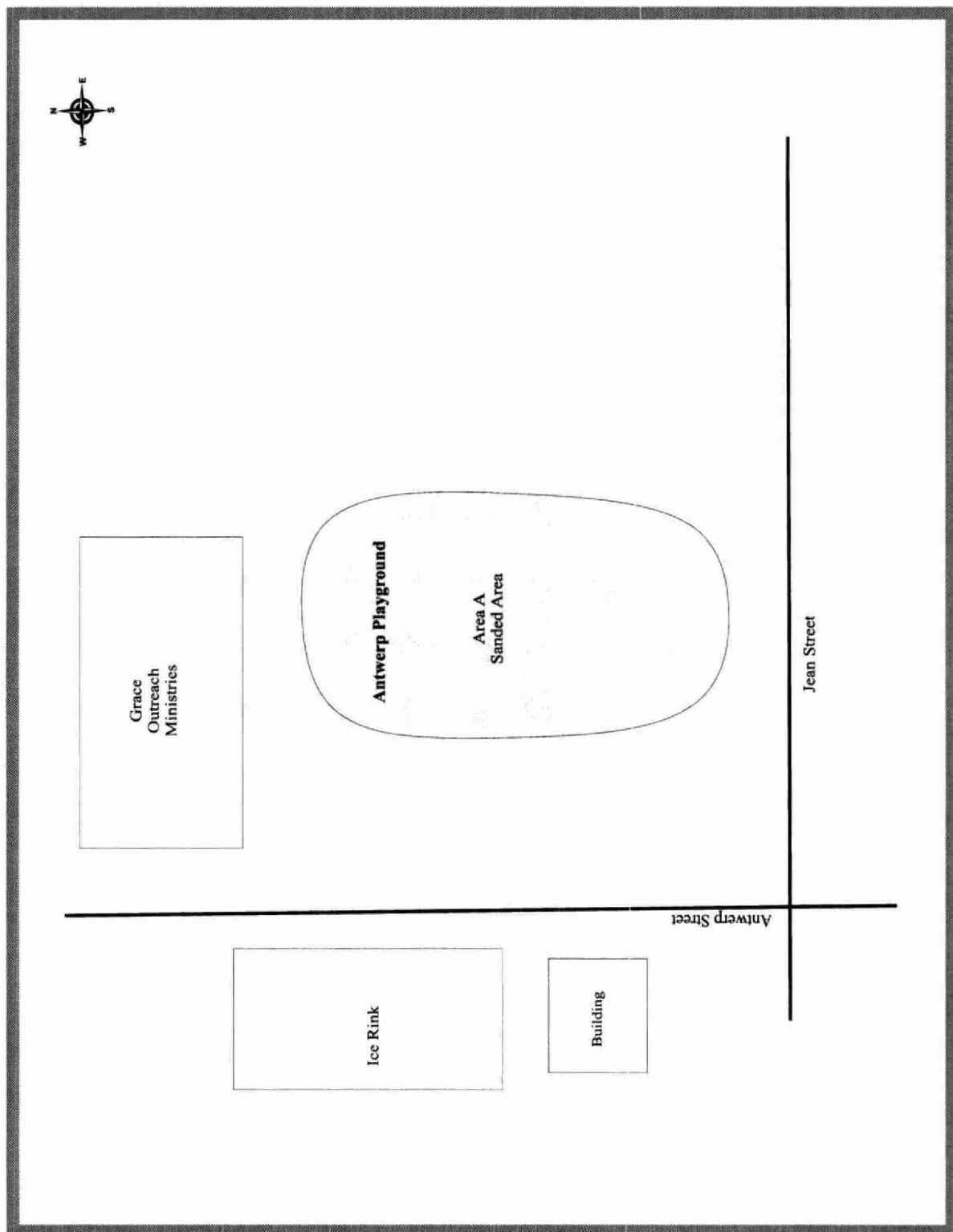
Map C5.3.3: Dedication Park, Falconbridge - 2001.

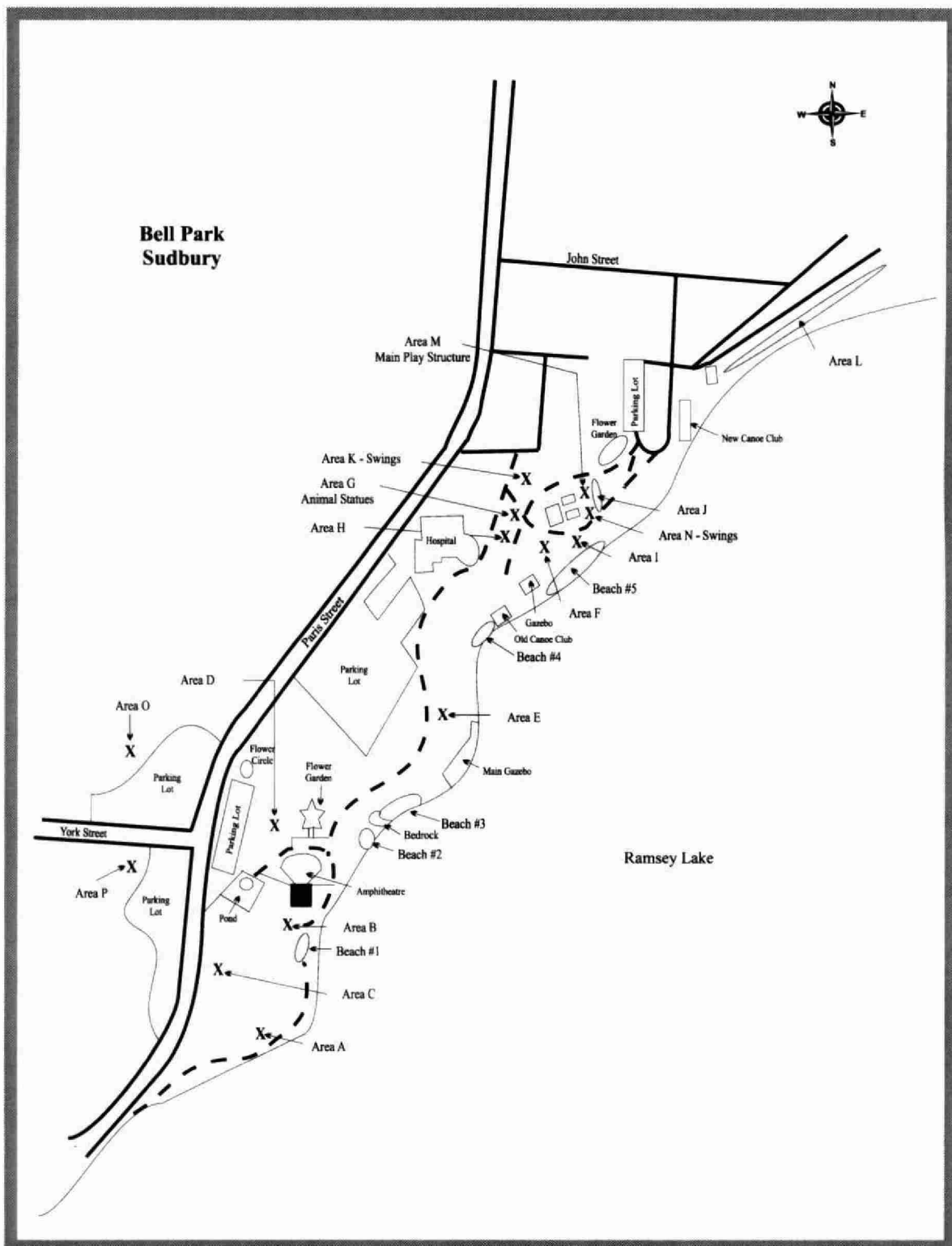


Map C5.3.4: Falconbridge Ballfields, Falconbridge - 2001.

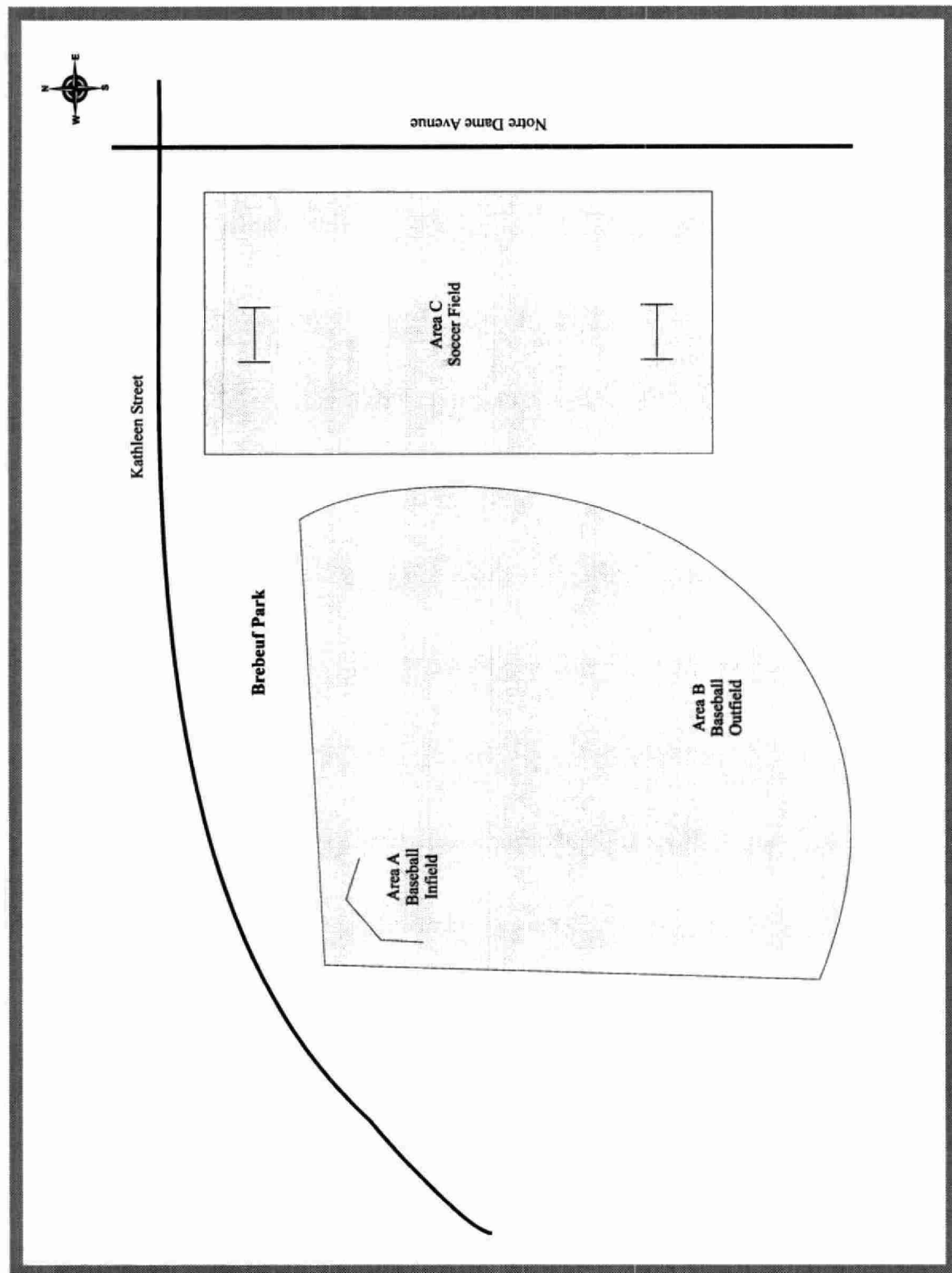


Map C5.3.5: Parkinson Playground, Falconbridge - 2001.

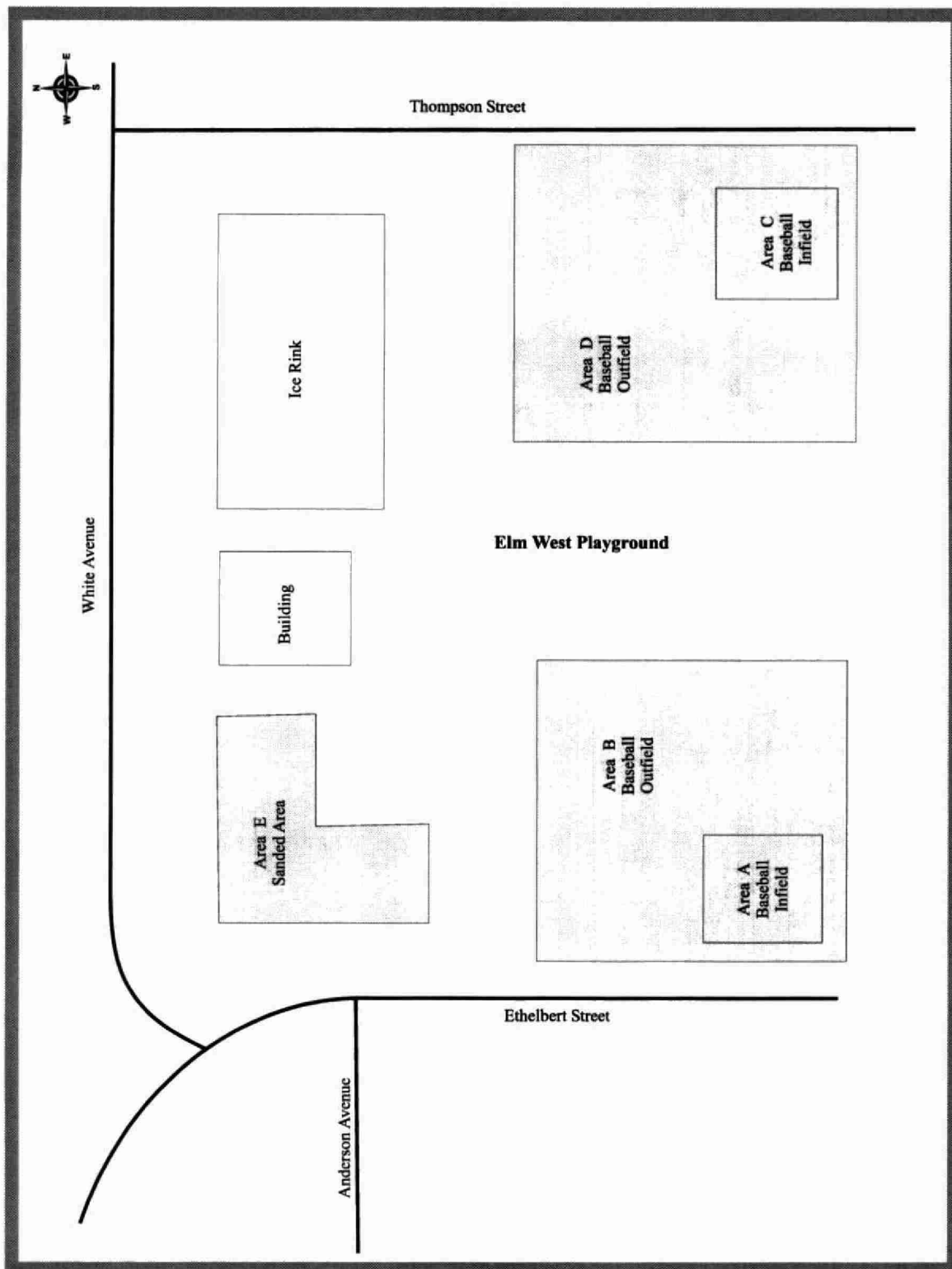
5.3 Sudbury Core Park Maps**Map C5.4.1: Antwerp Playground, Sudbury Core- 2001.**



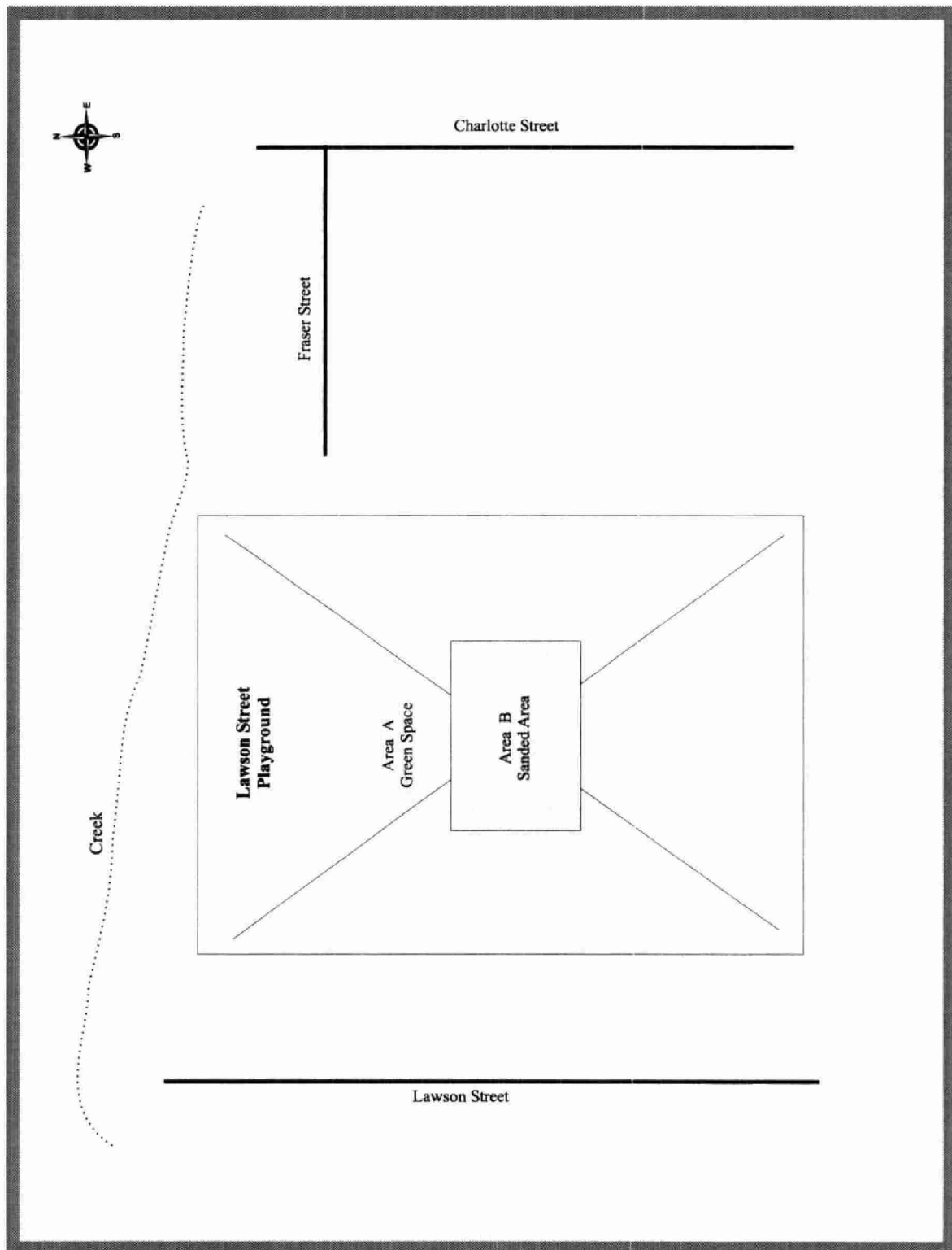
Map C5.4.2: Bell Park, Sudbury Core - 2001.



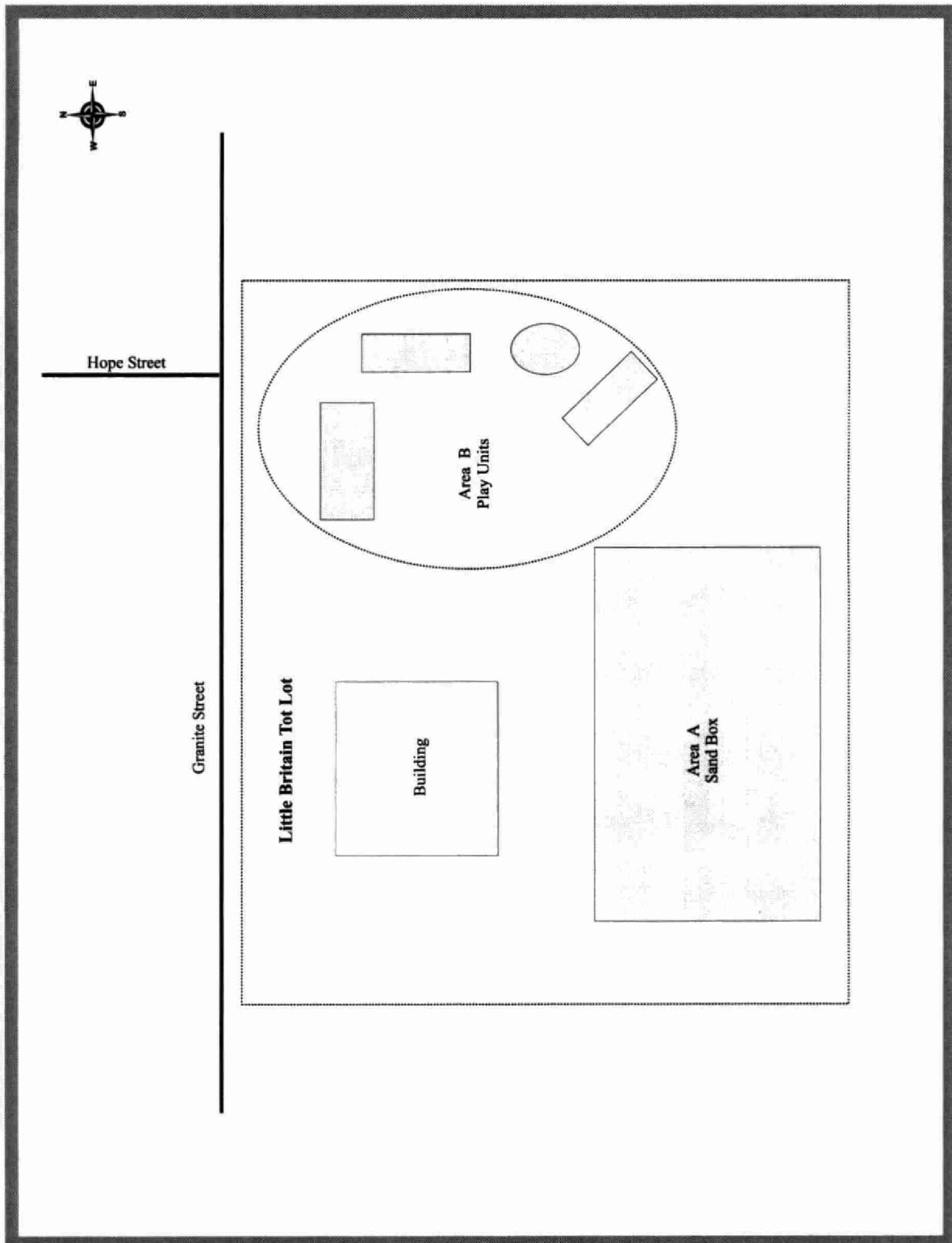
Map C5.4.3: Brebeuf Park, Sudbury Core - 2001.



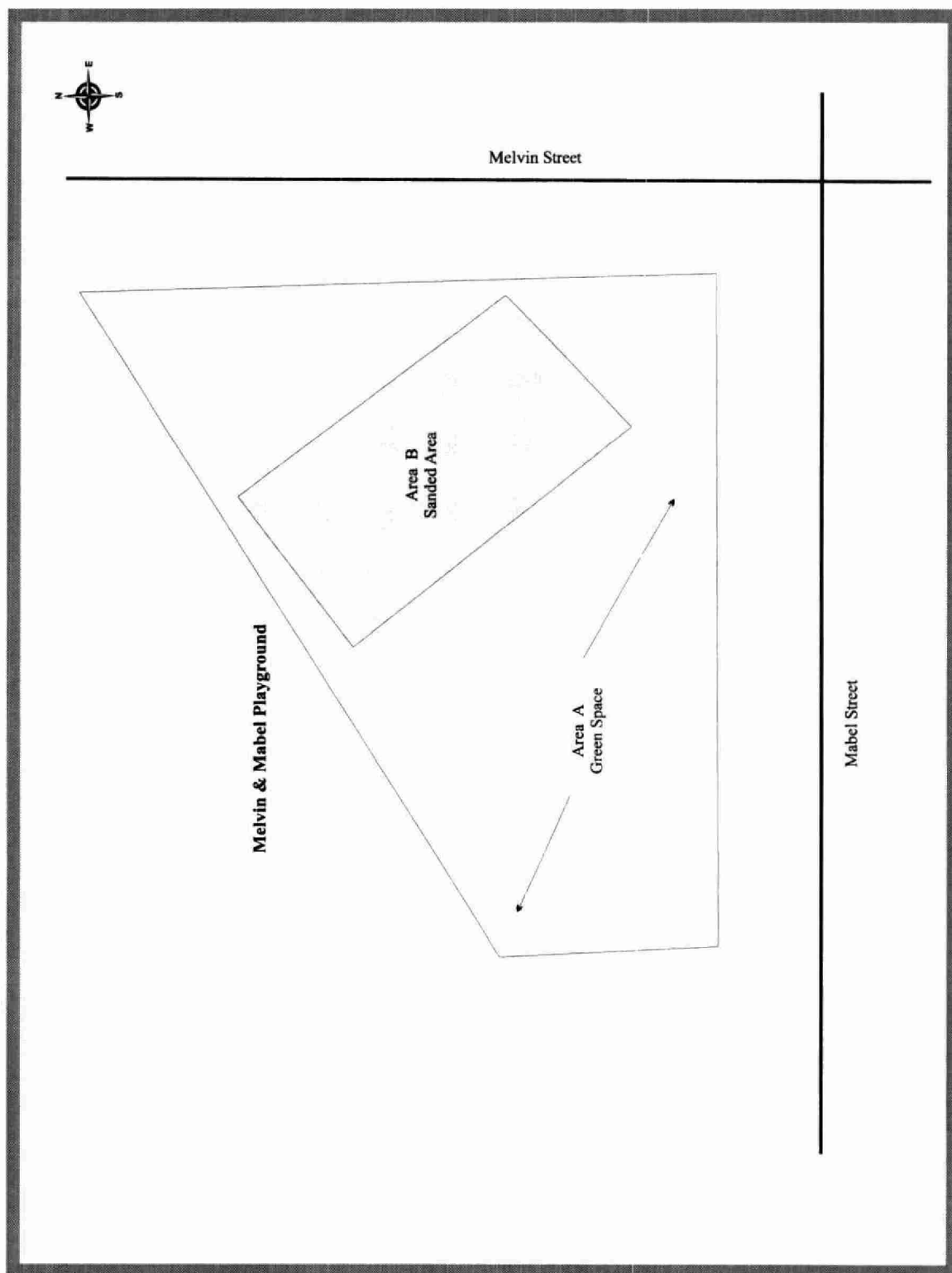
Map C5.4.4: Elm West Playground, Sudbury Core - 2001.



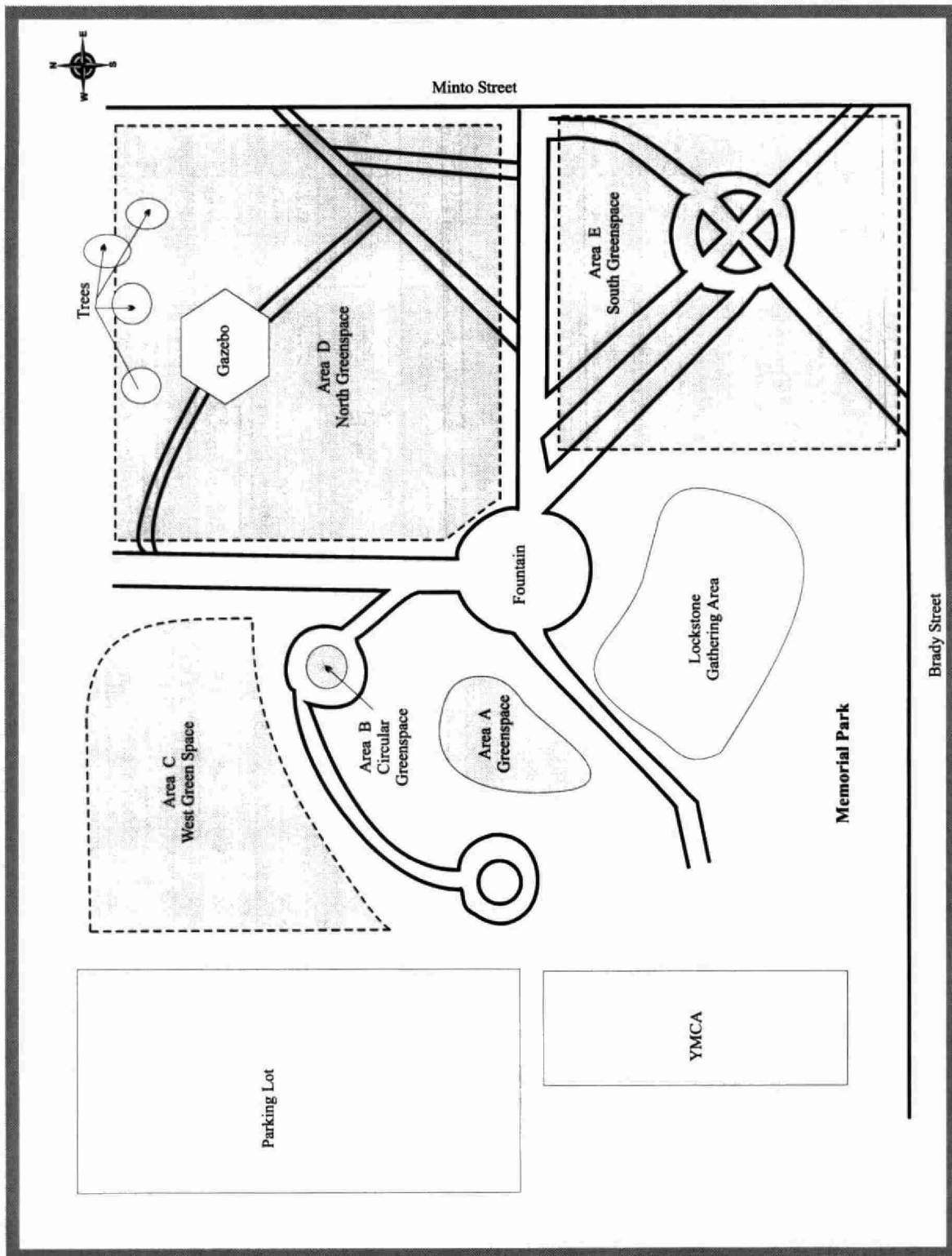
Map C5.4.5: Lawson Street Playground, Sudbury Core - 2001.



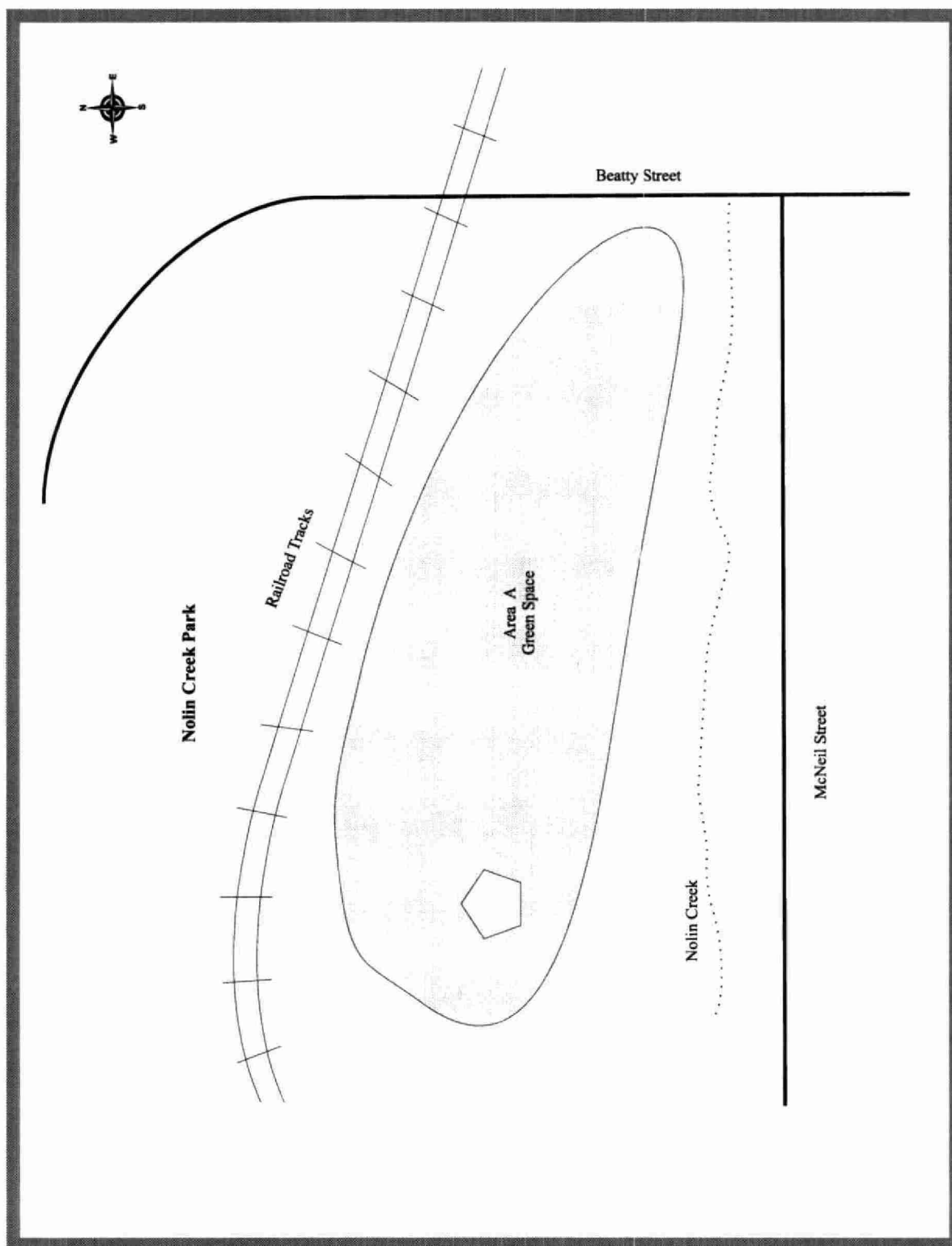
Map C5.4.6: Little Britain Tot Lot, Sudbury Core - 2001.



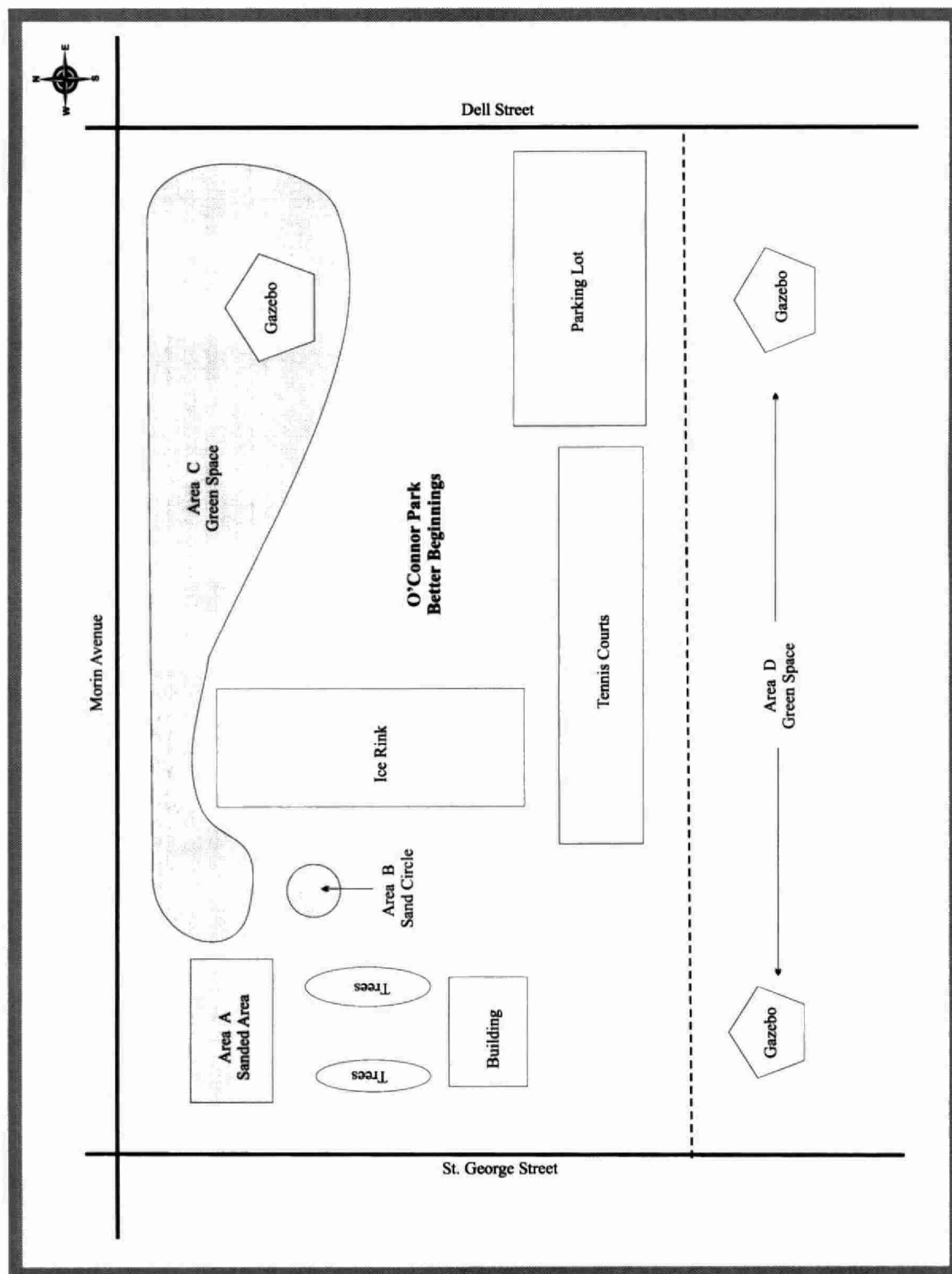
Map C5.4.7: Melvin and Mabel Streets Playground, Sudbury Core - 2001.



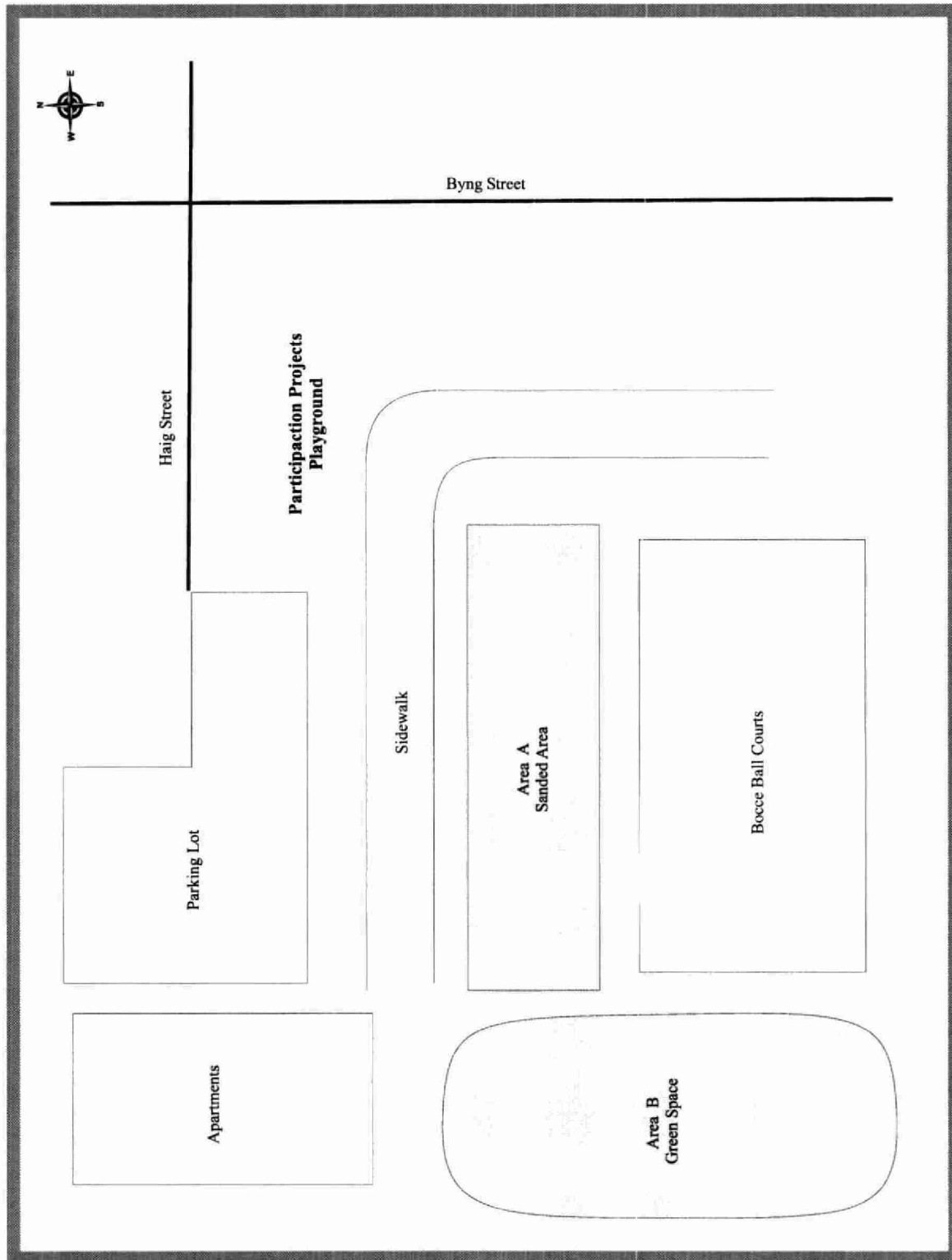
Map C5.4.8: Memorial Park, Sudbury Core - 2001.

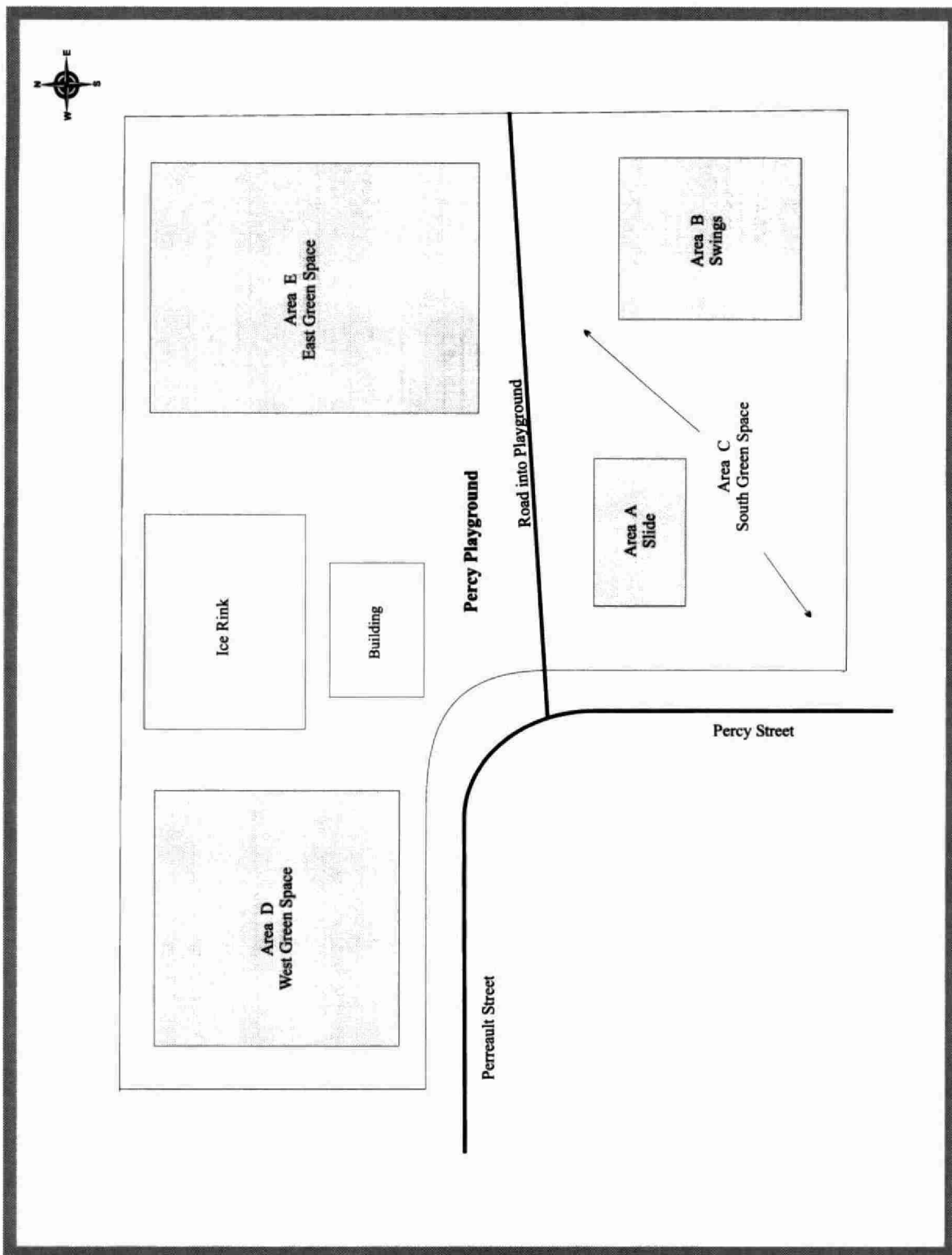


Map C5.4.9: Nolin Creek Park, Sudbury Core - 2001.

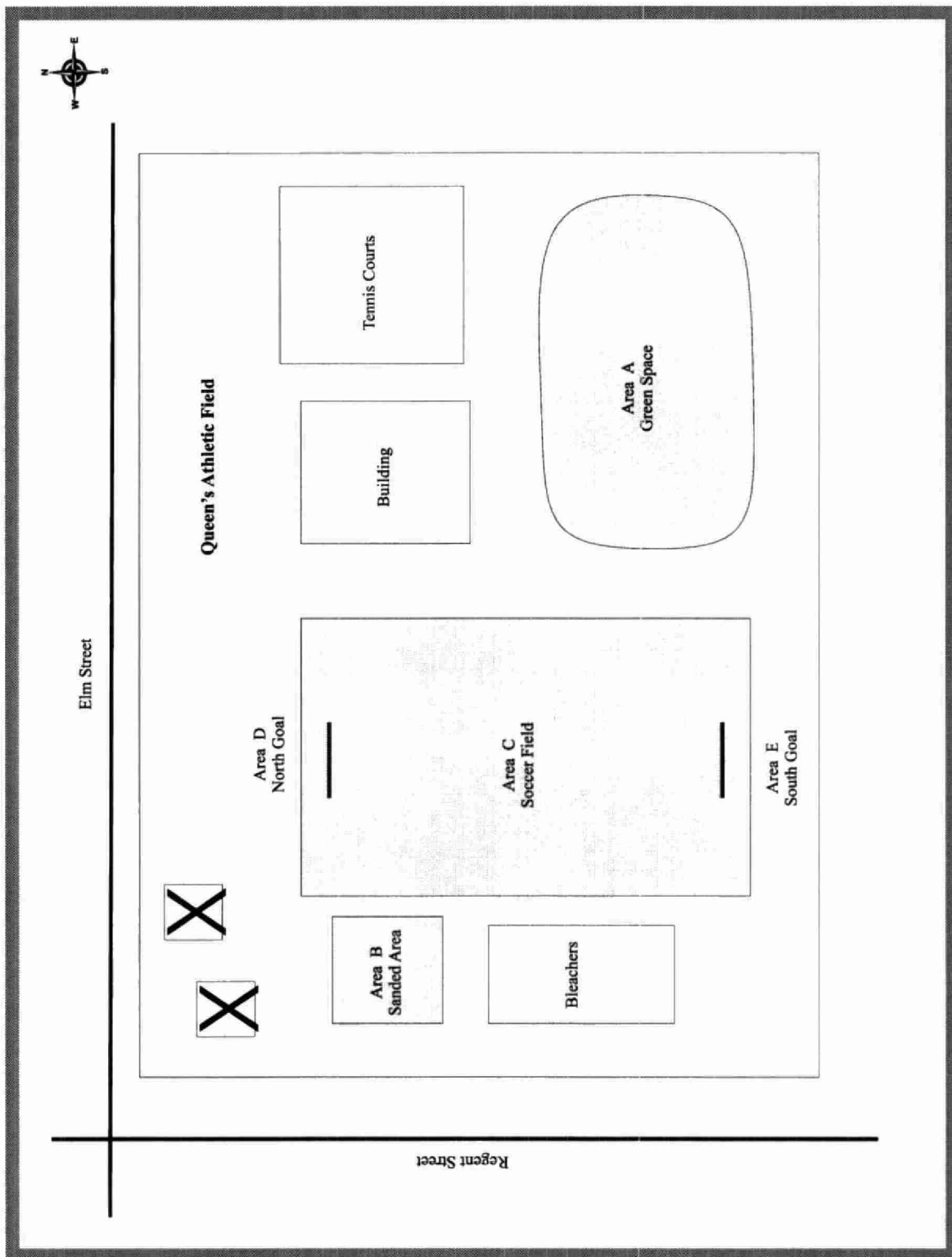


Map C5.4.10: O'Connor Park (Better Beginnings), Sudbury Core - 2001.

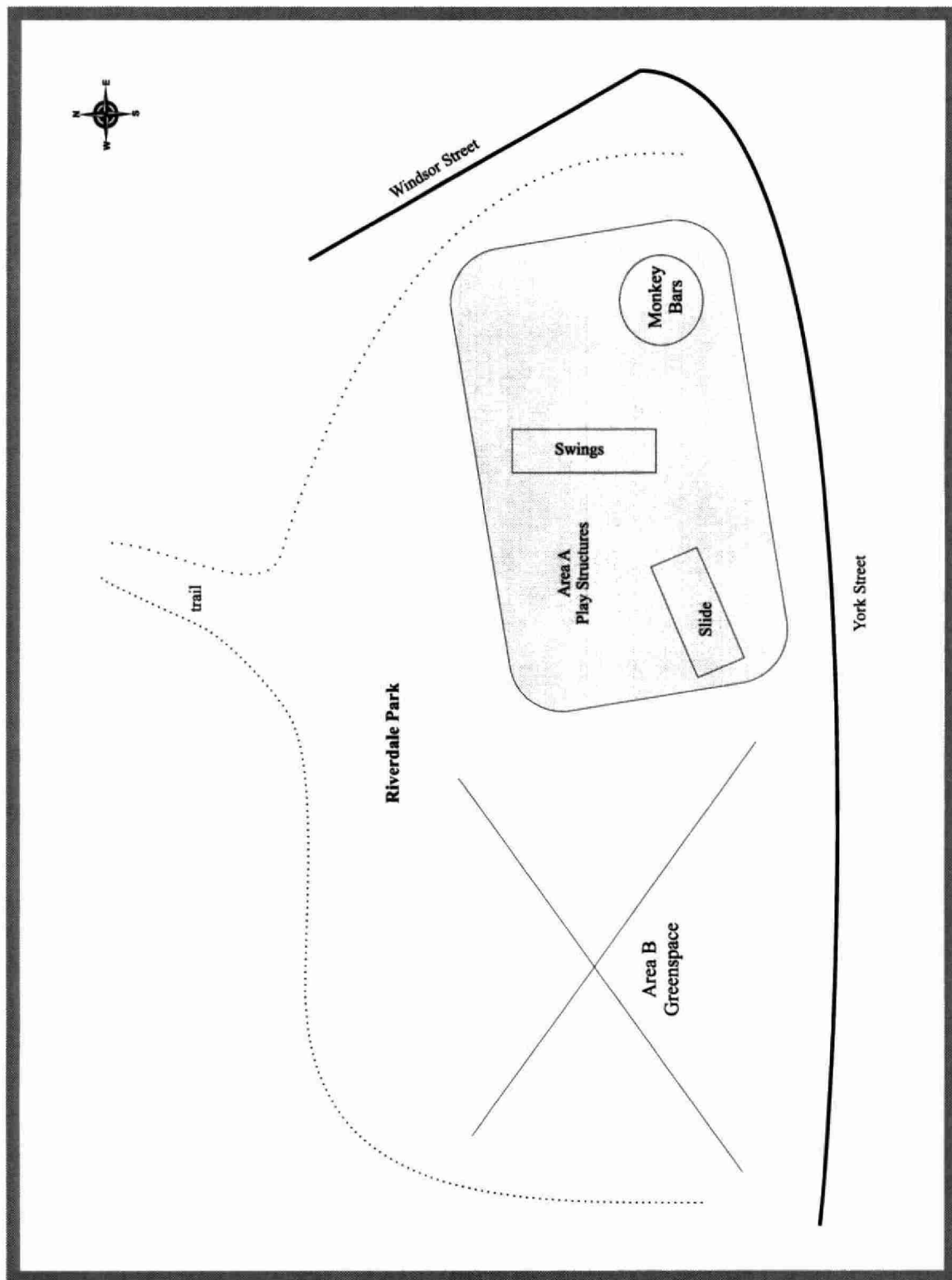




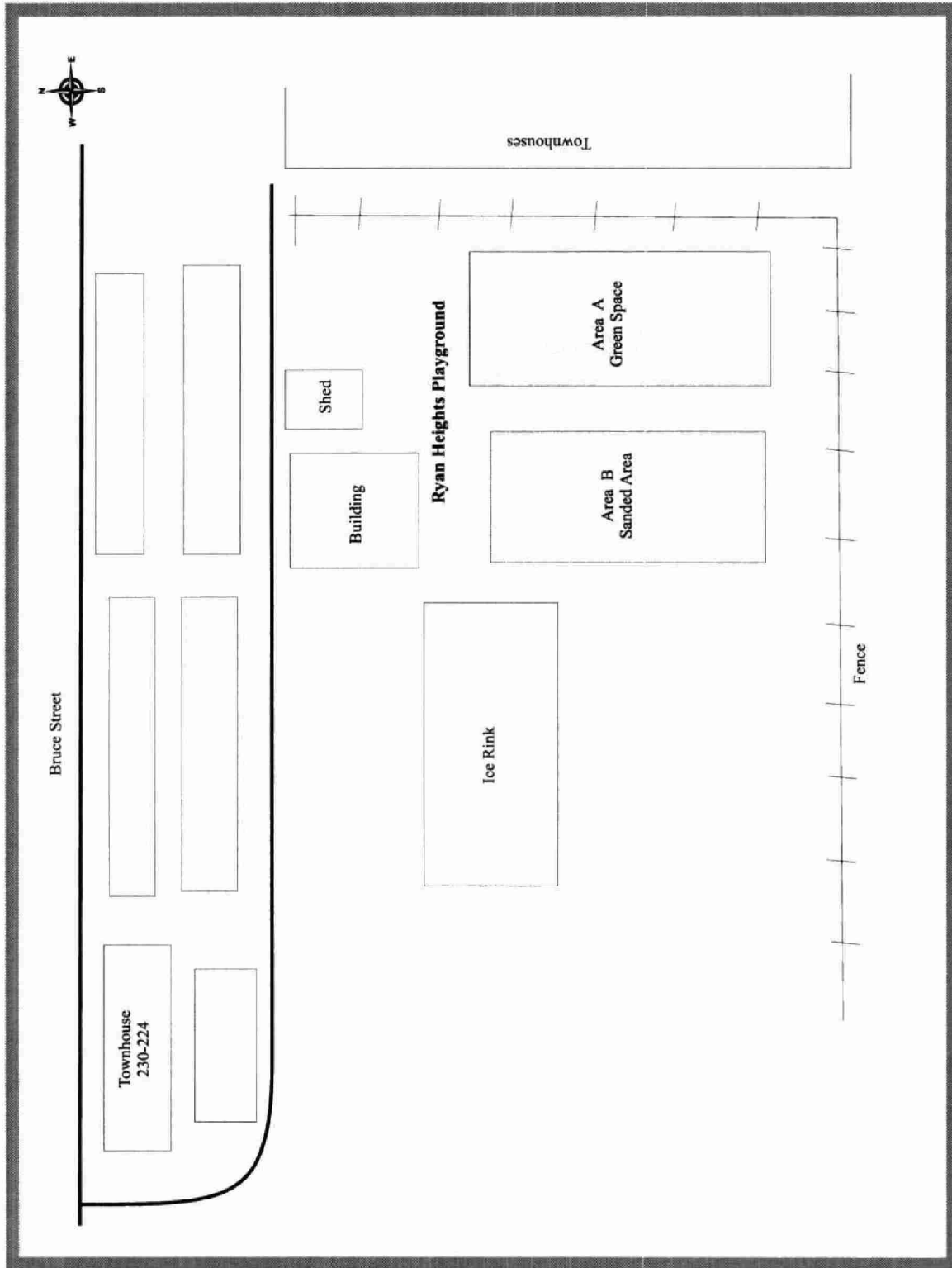
Map C5.4.12: Percy Playground, Sudbury Core - 2001.



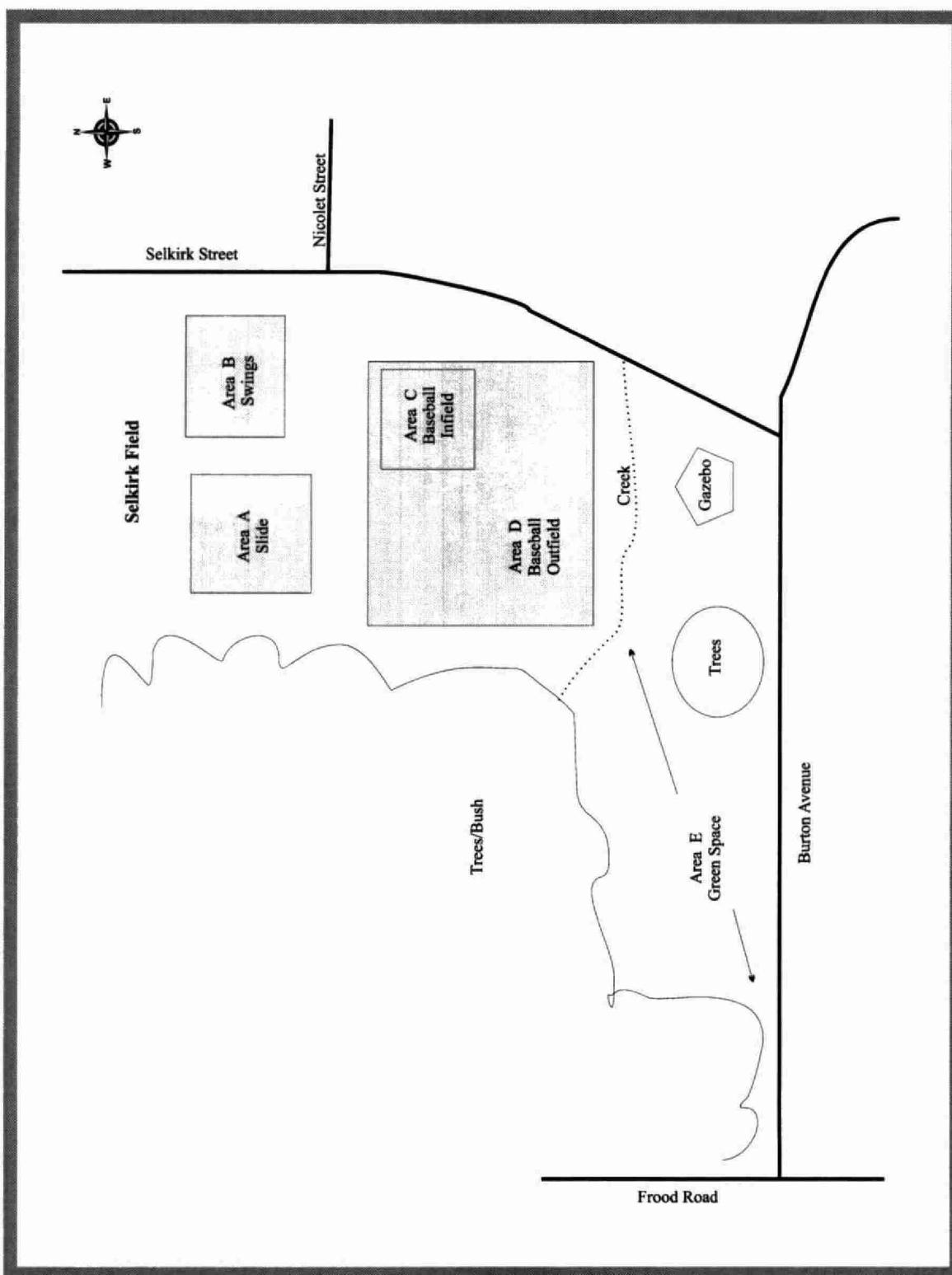
Map C5.4.13: Queen's Athletic Field, Sudbury Core - 2001.



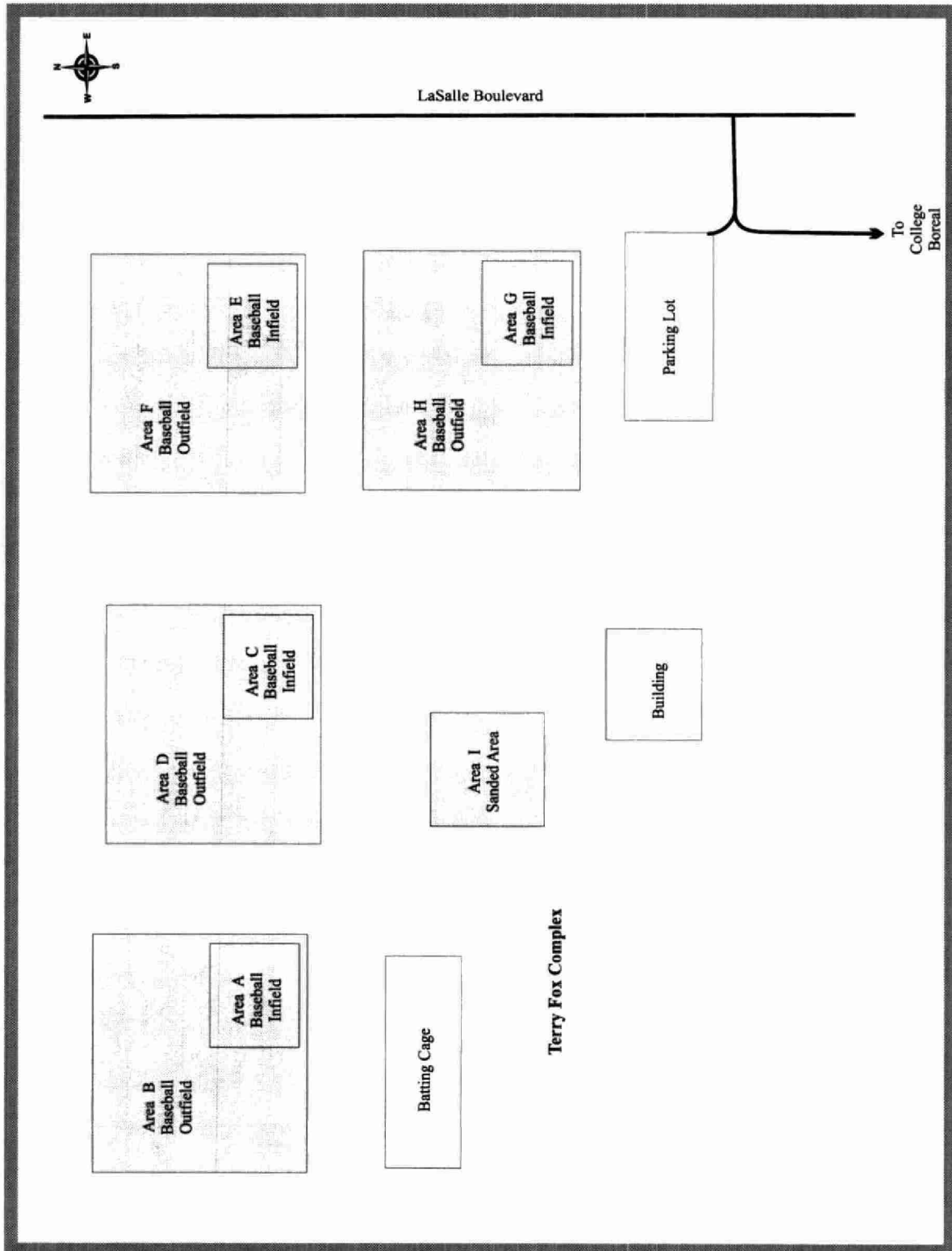
Map C5.4.14: Riverdale Park, Sudbury Core - 2001.



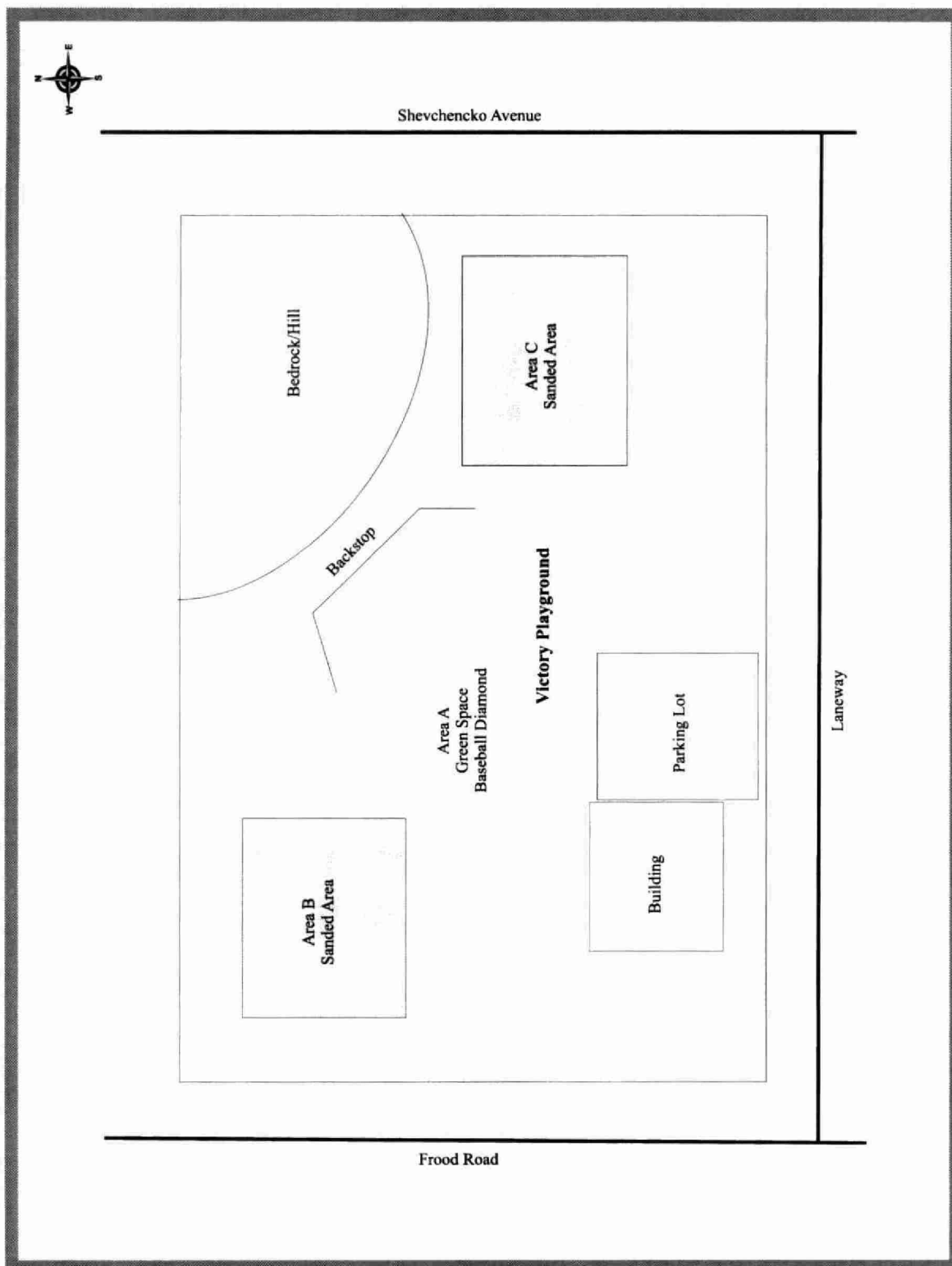
Map C5.4.15: Ryan Heights Playground, Sudbury Core - 2001.



Map C5.4.16: Selkirk Field, Sudbury Core - 2001.

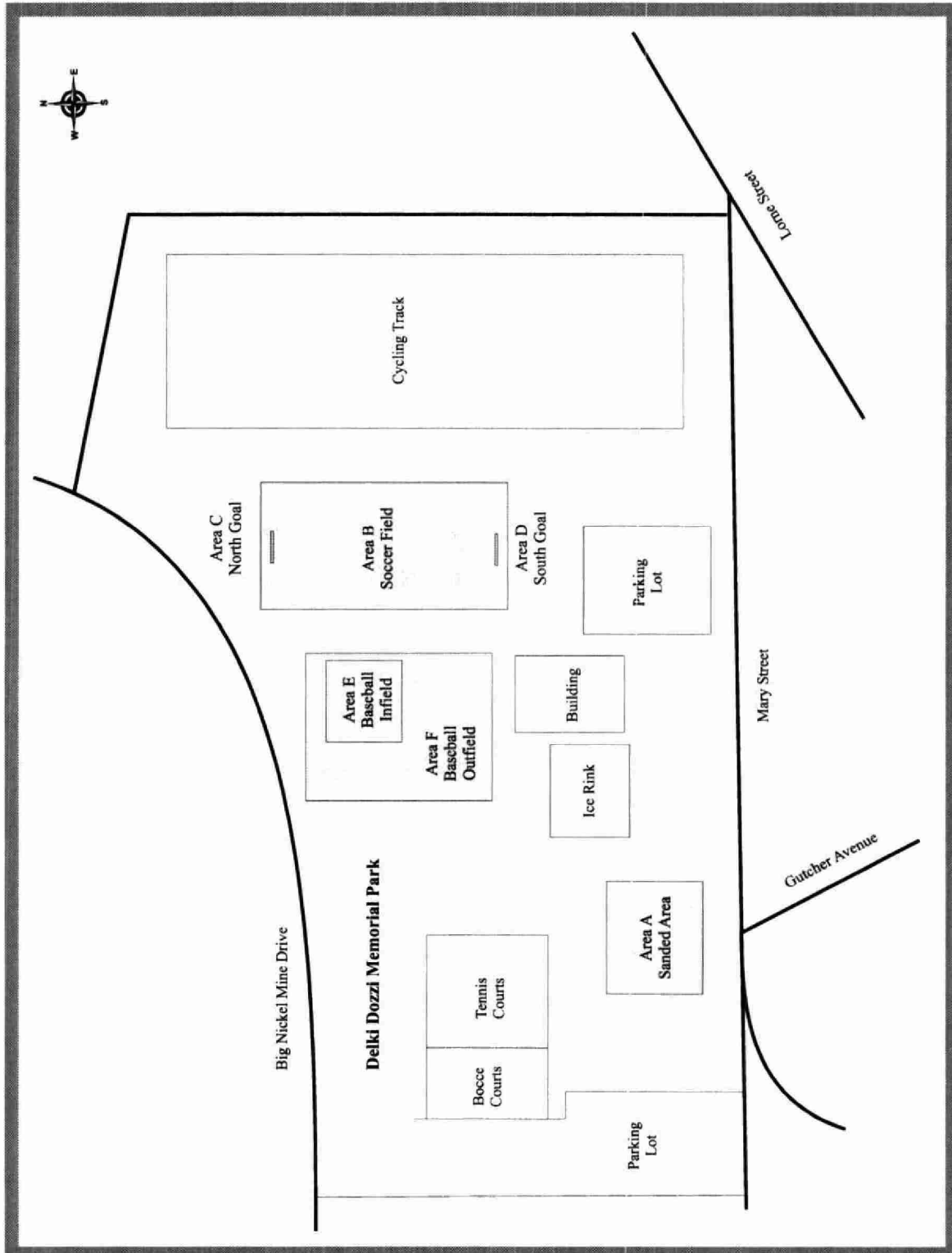


Map C5.4.17: Terry Fox Complex, Sudbury Core - 2001.

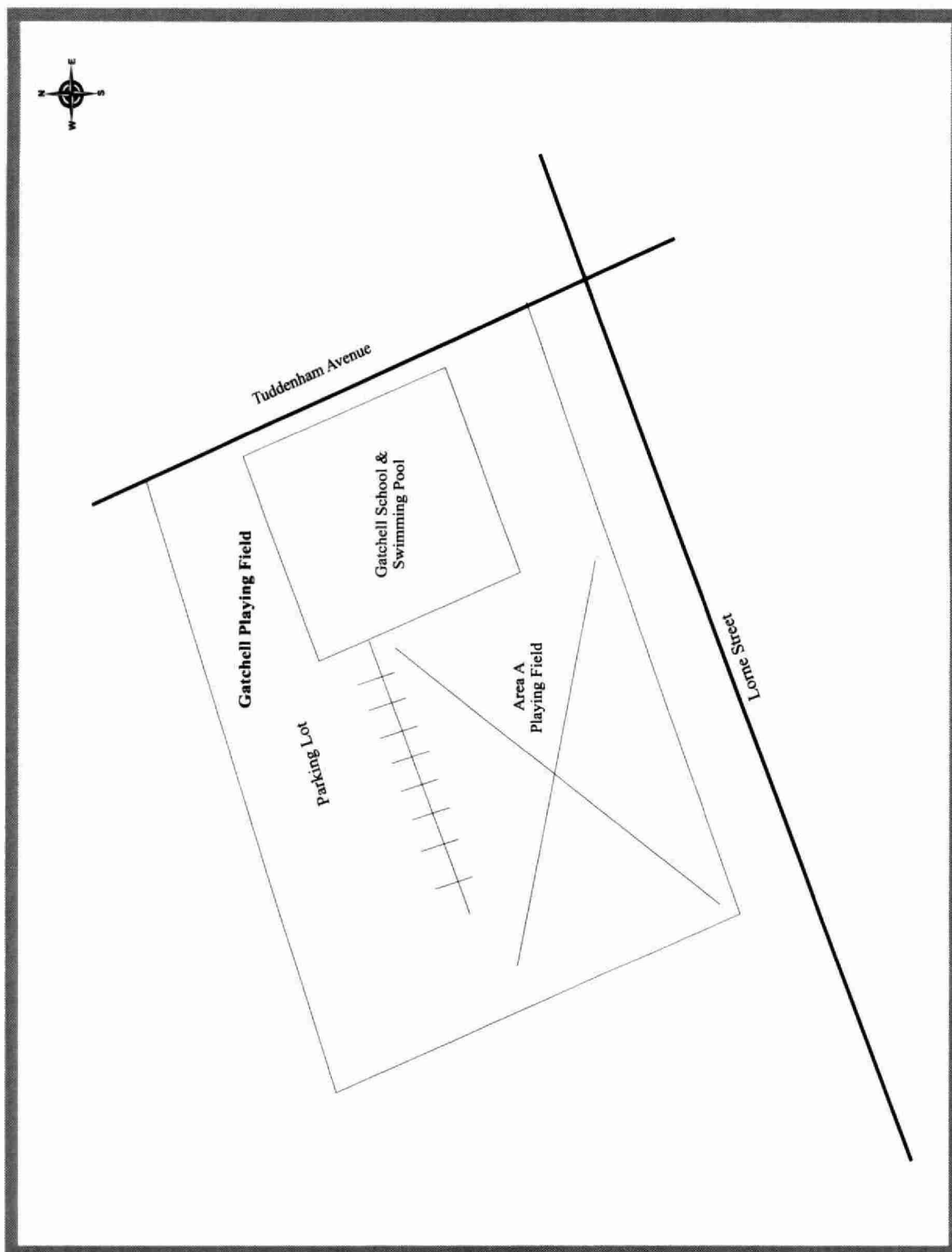


Map C5.4.18: Victory Playground, Sudbury Core - 2001.

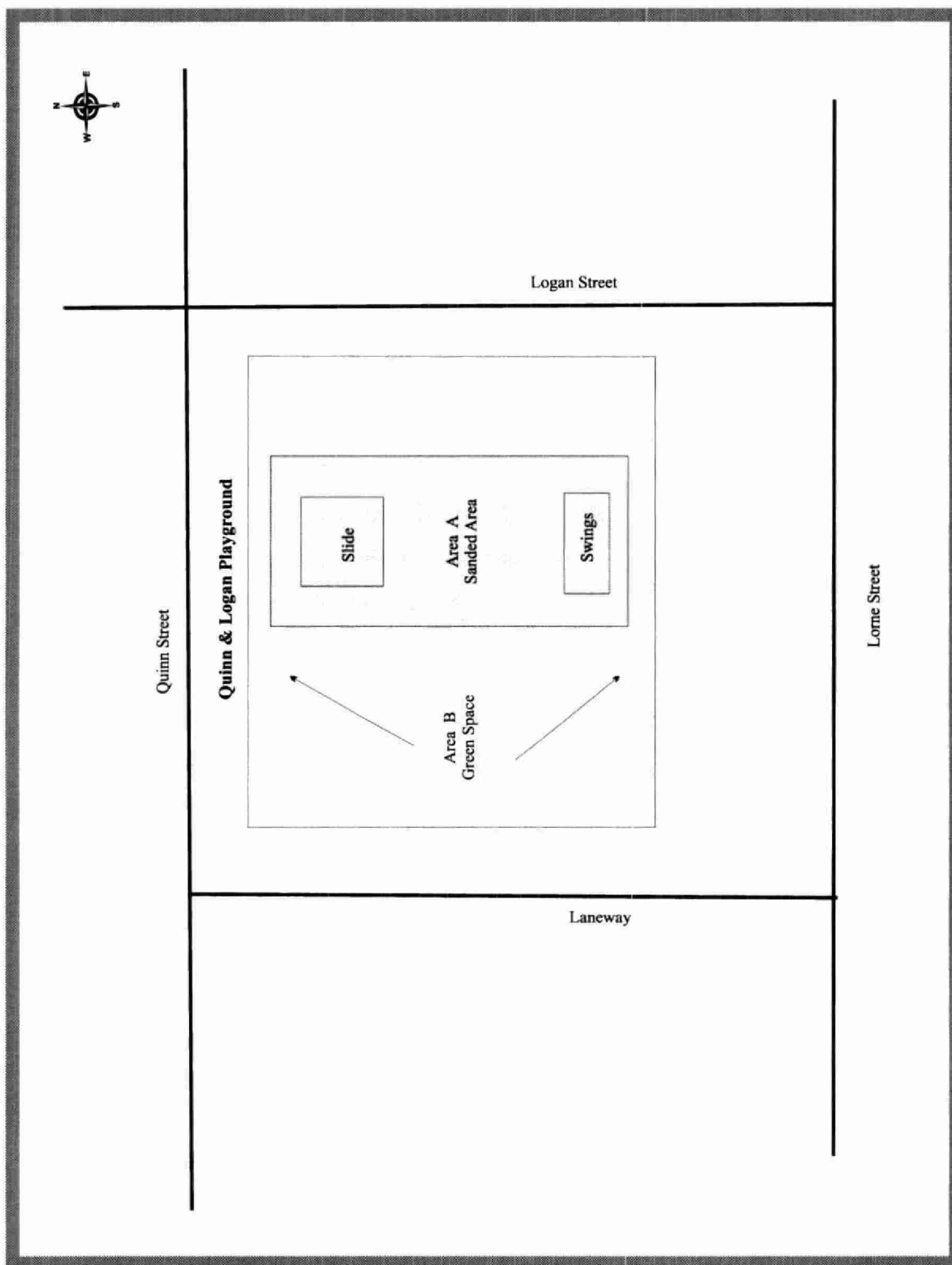
5.5 Gatchel Park Maps



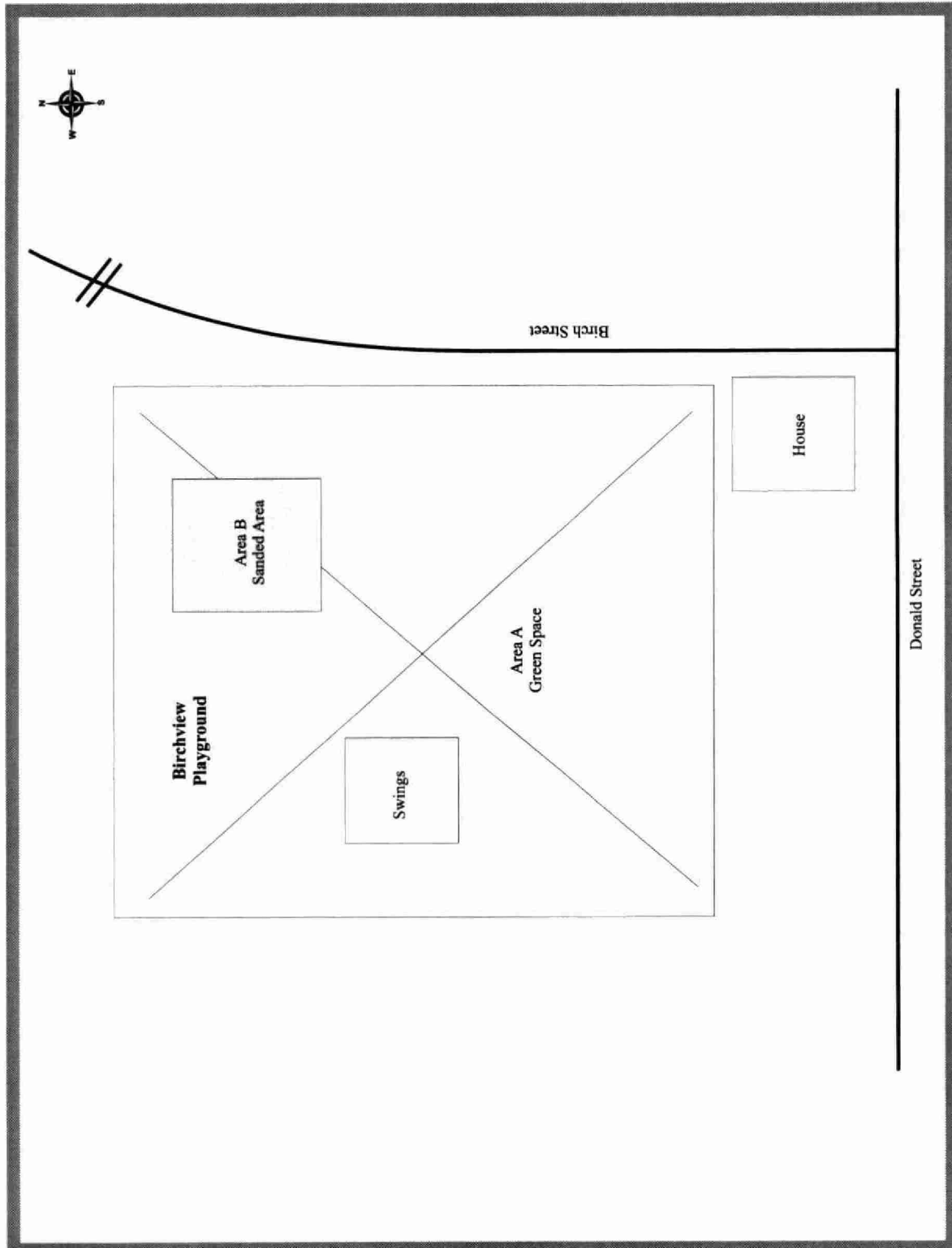
Map C5.4.19: Delki Dozzi Athletic Field, Gatchell - 2001.

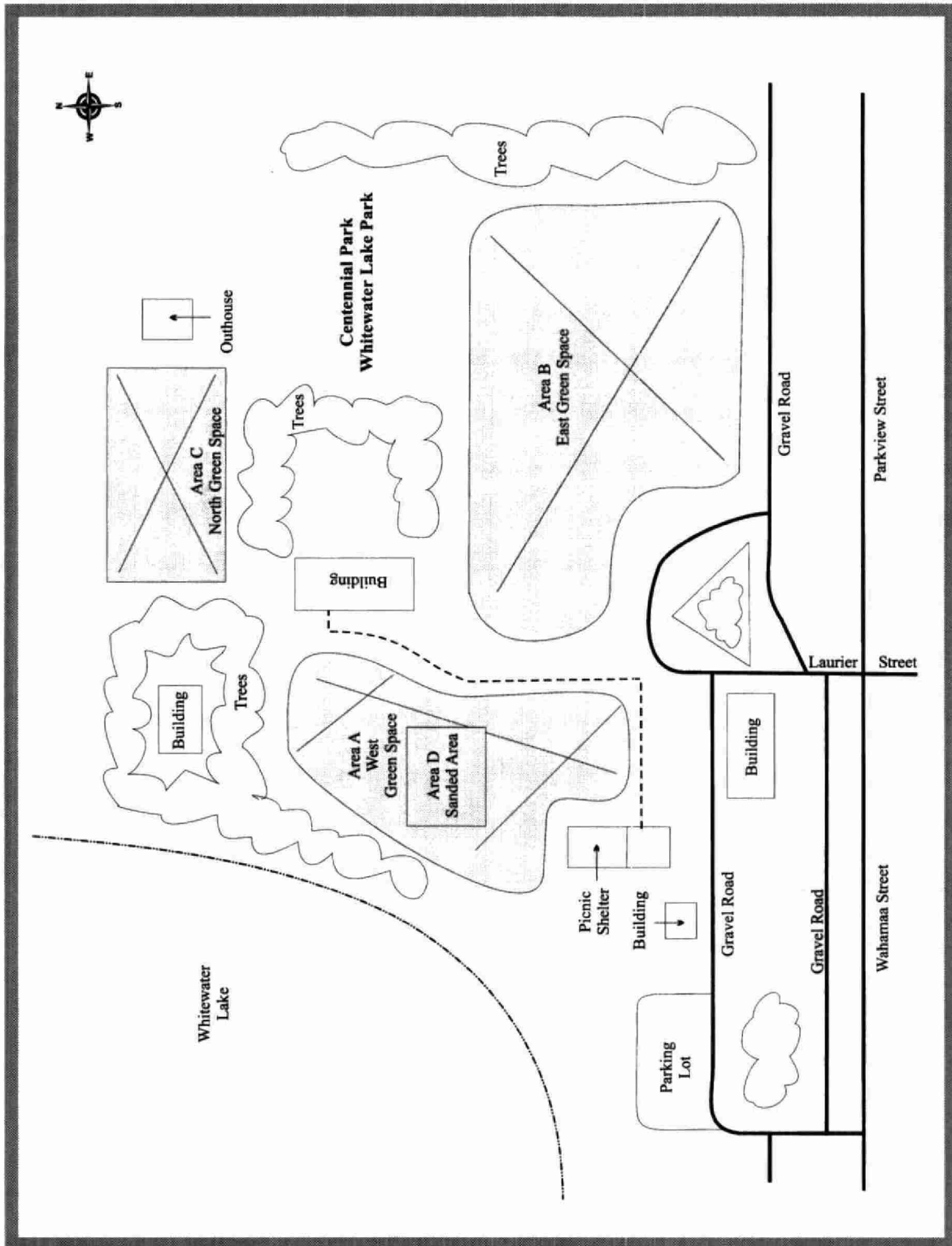


Map C5.4.20: Gatchell Pool Field, Gatchell - 2001.

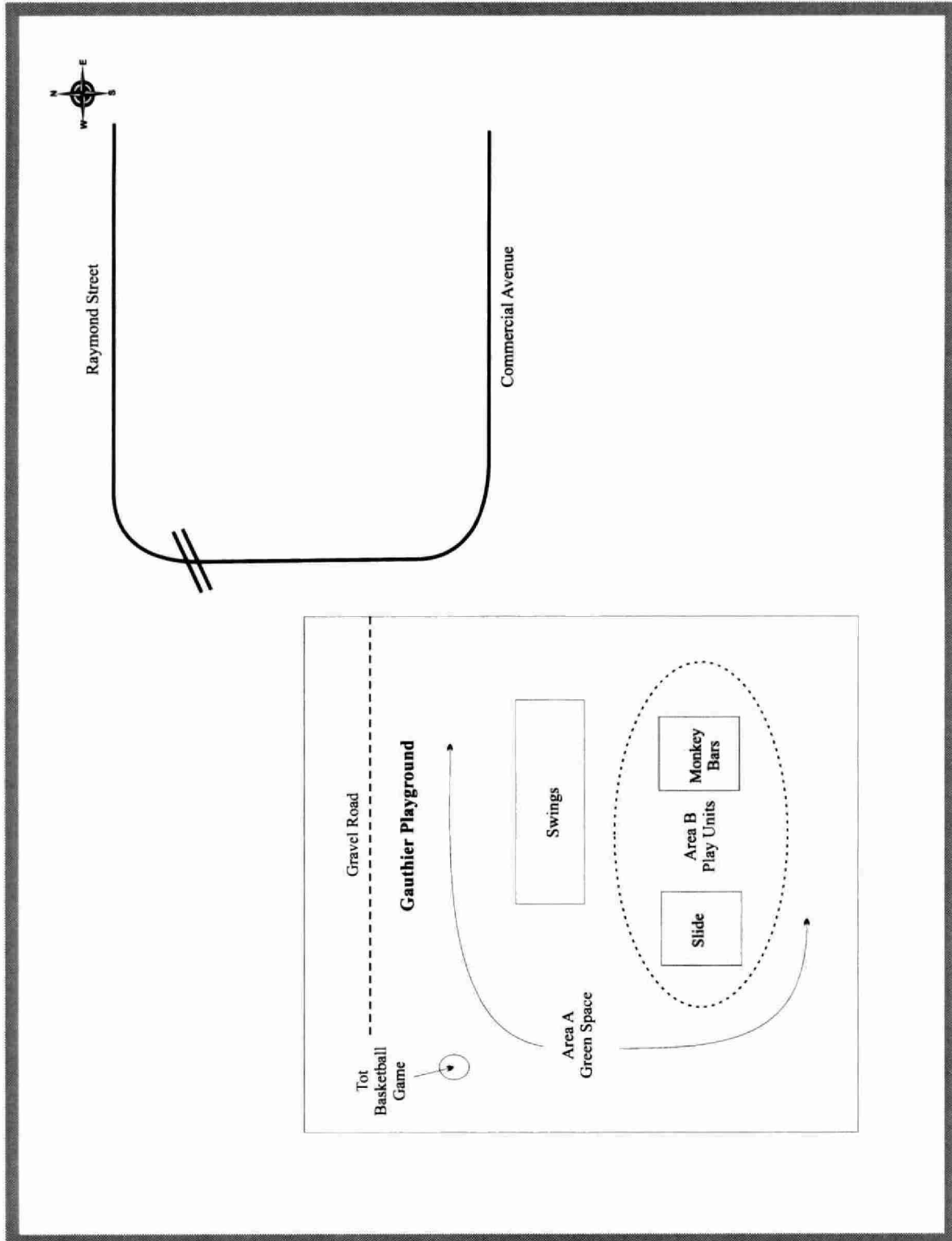


Map C5.4.21: Park located at the corner of Quinn and Logan Streets, Gatchell - 2001.

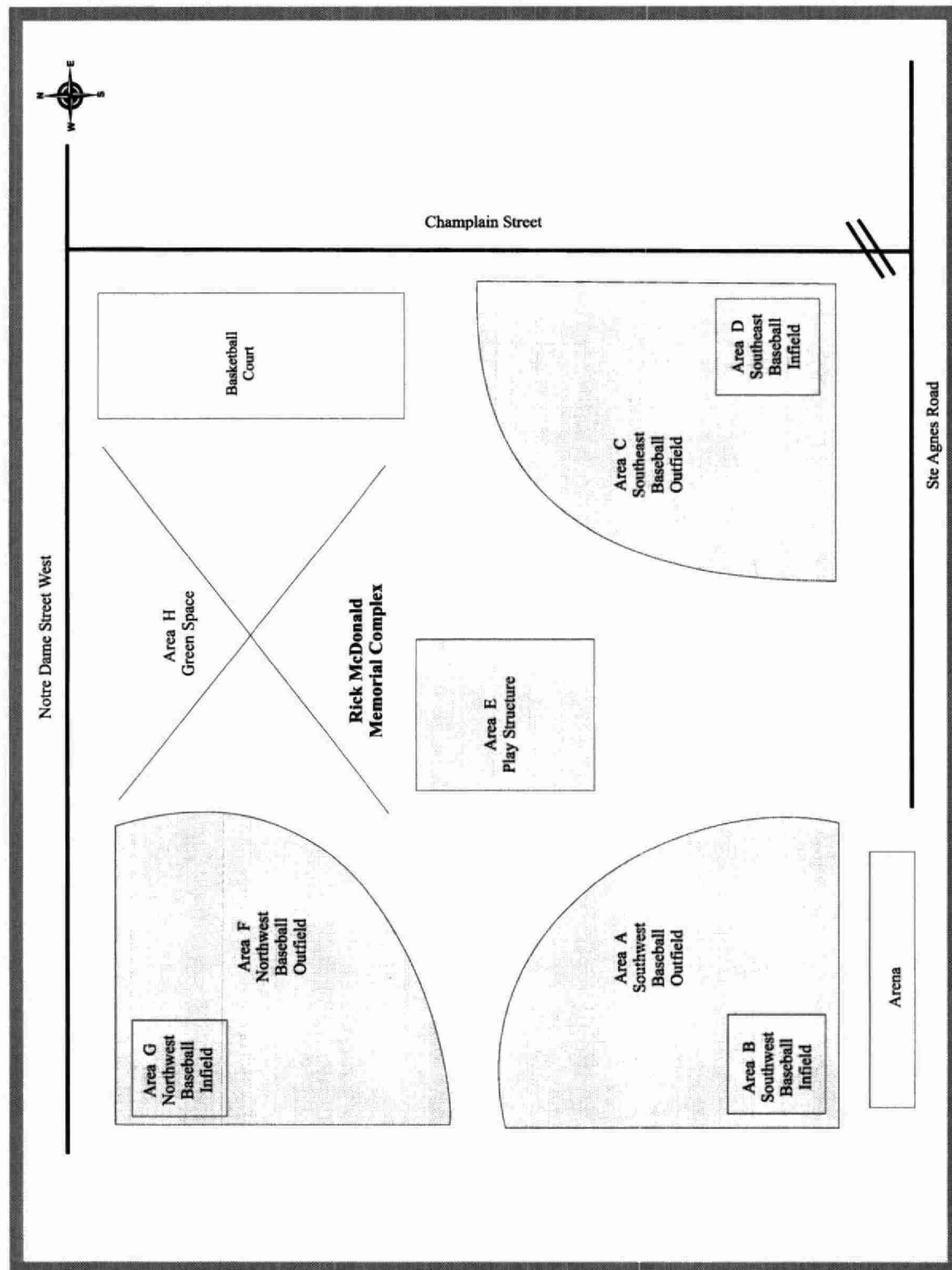
5.5 Azilda Park Maps**Map C5.5.1: Birchview Playground, Azilda - 2001.**



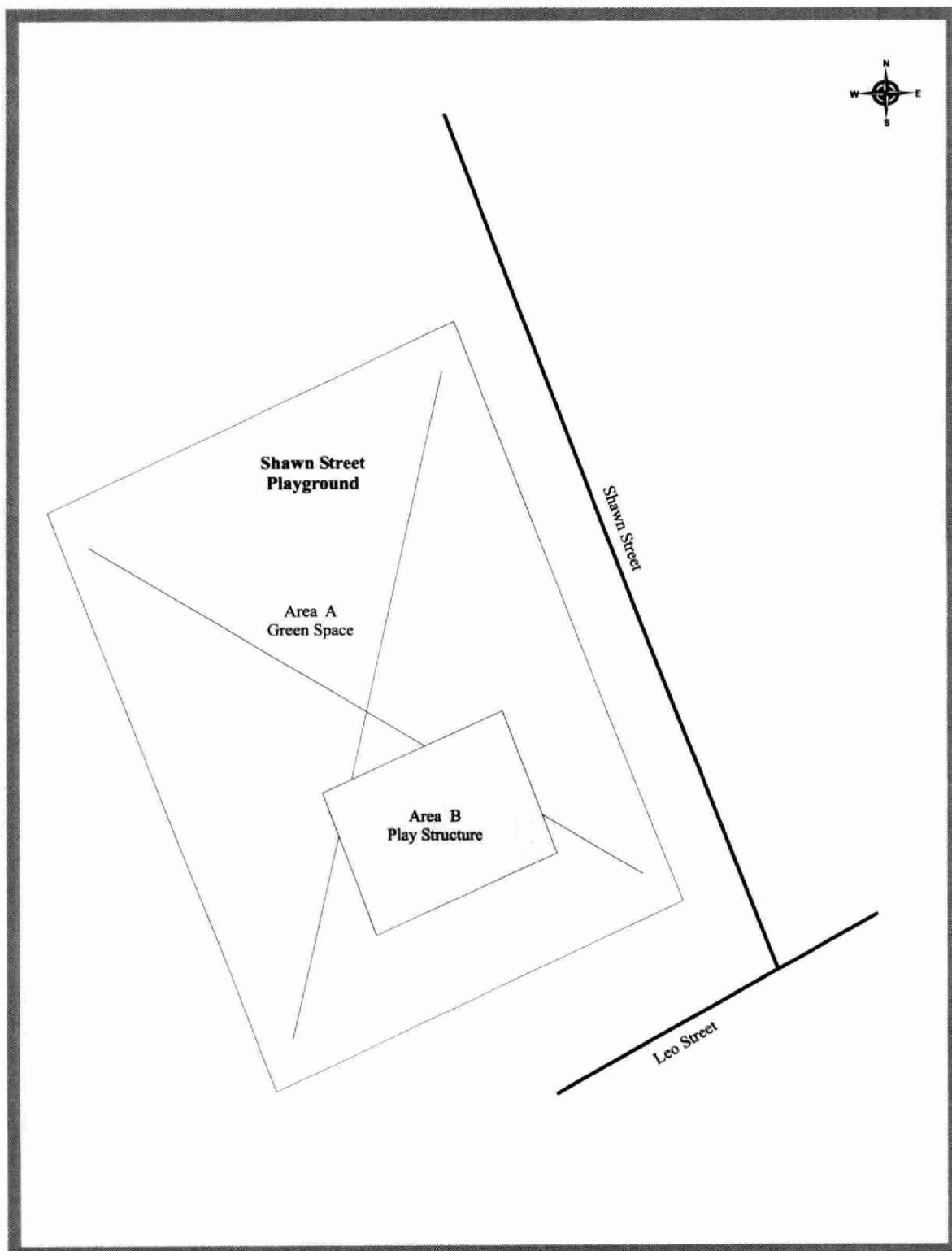
Map C5.5.2: Centennial Park (Whitewater Lake Park), Azilda - 2001.



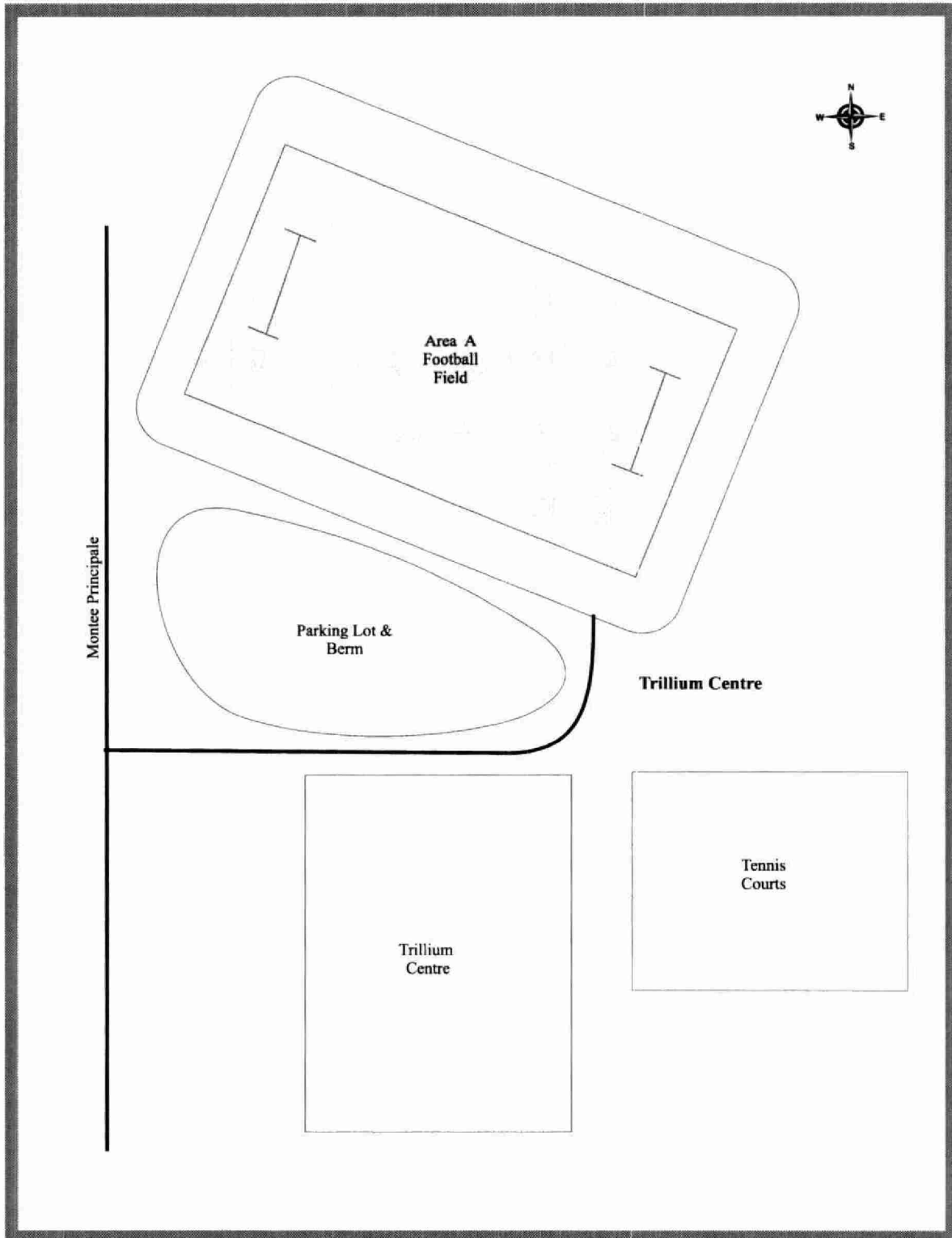
Map C5.5.3: Gauthier Playground (Commercial Playground), Azilda - 2001.



Map C5.5.4: Rick McDonald Memorial Complex (Champlain Fields), Azilda - 2001.

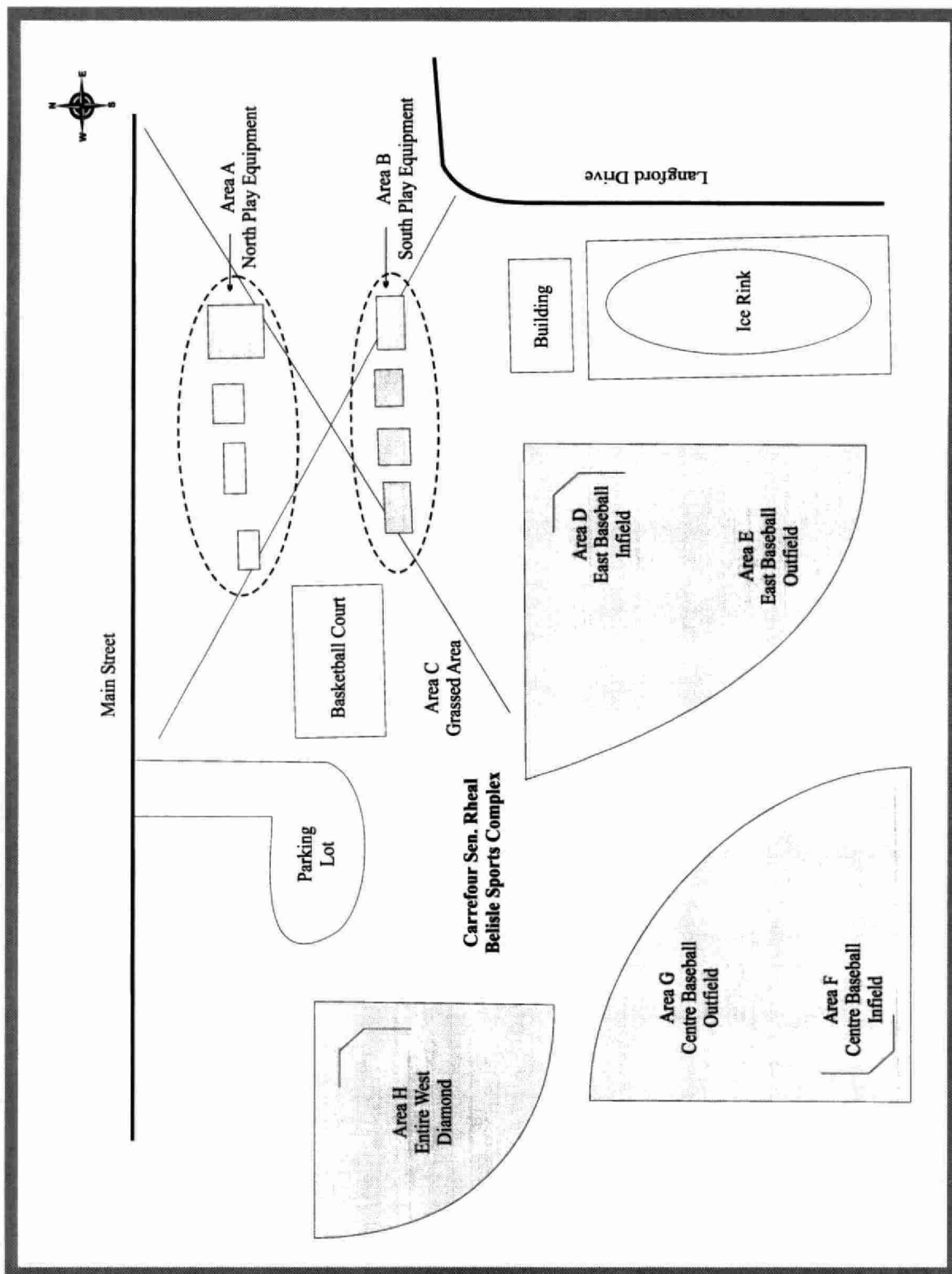


Map C5.5.5: Shawn Street Playground, Azilda - 2001.



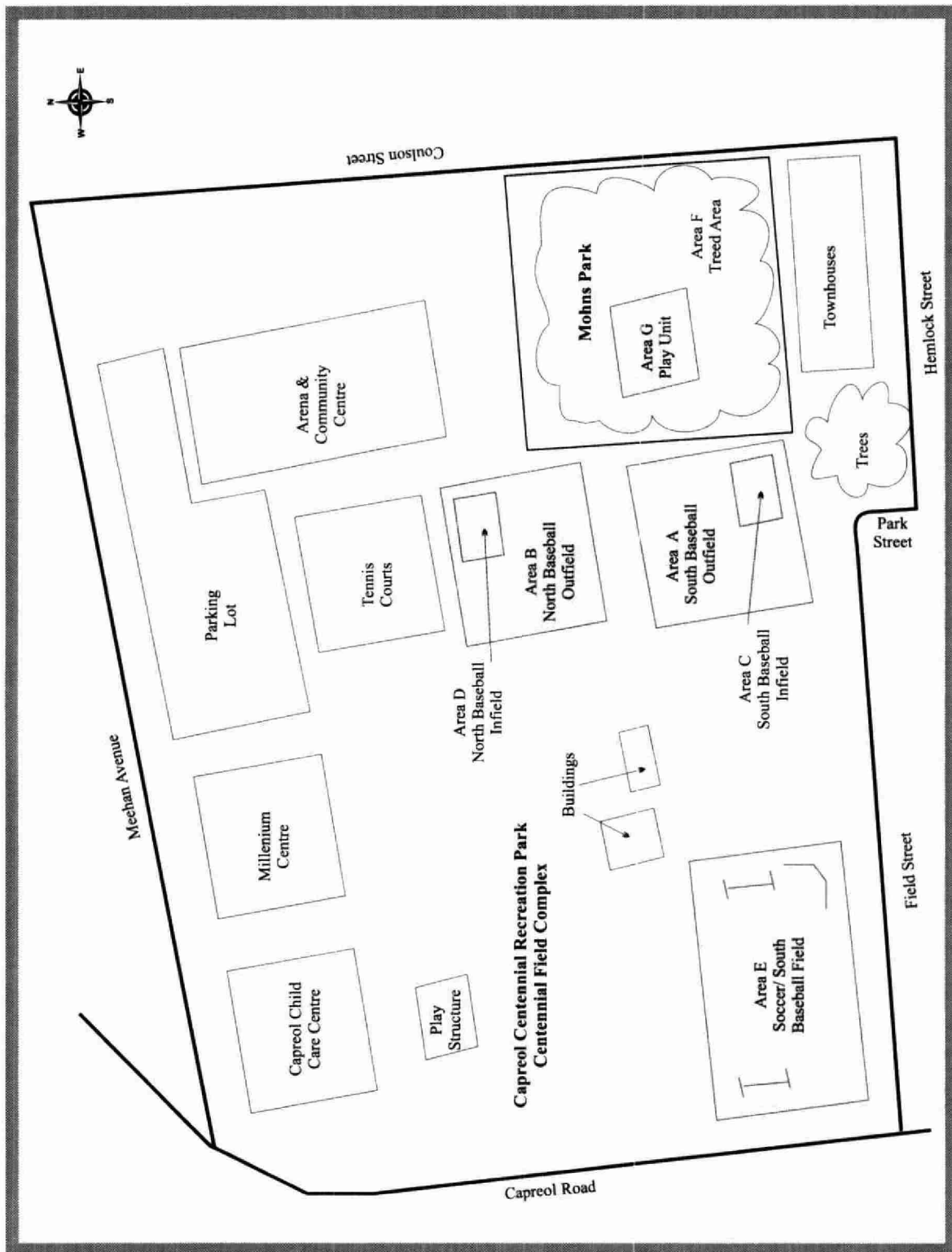
Map C5.5.6: Trillium Centre, Azilda - 2001.

5.6 Blezzard Valley Park Maps

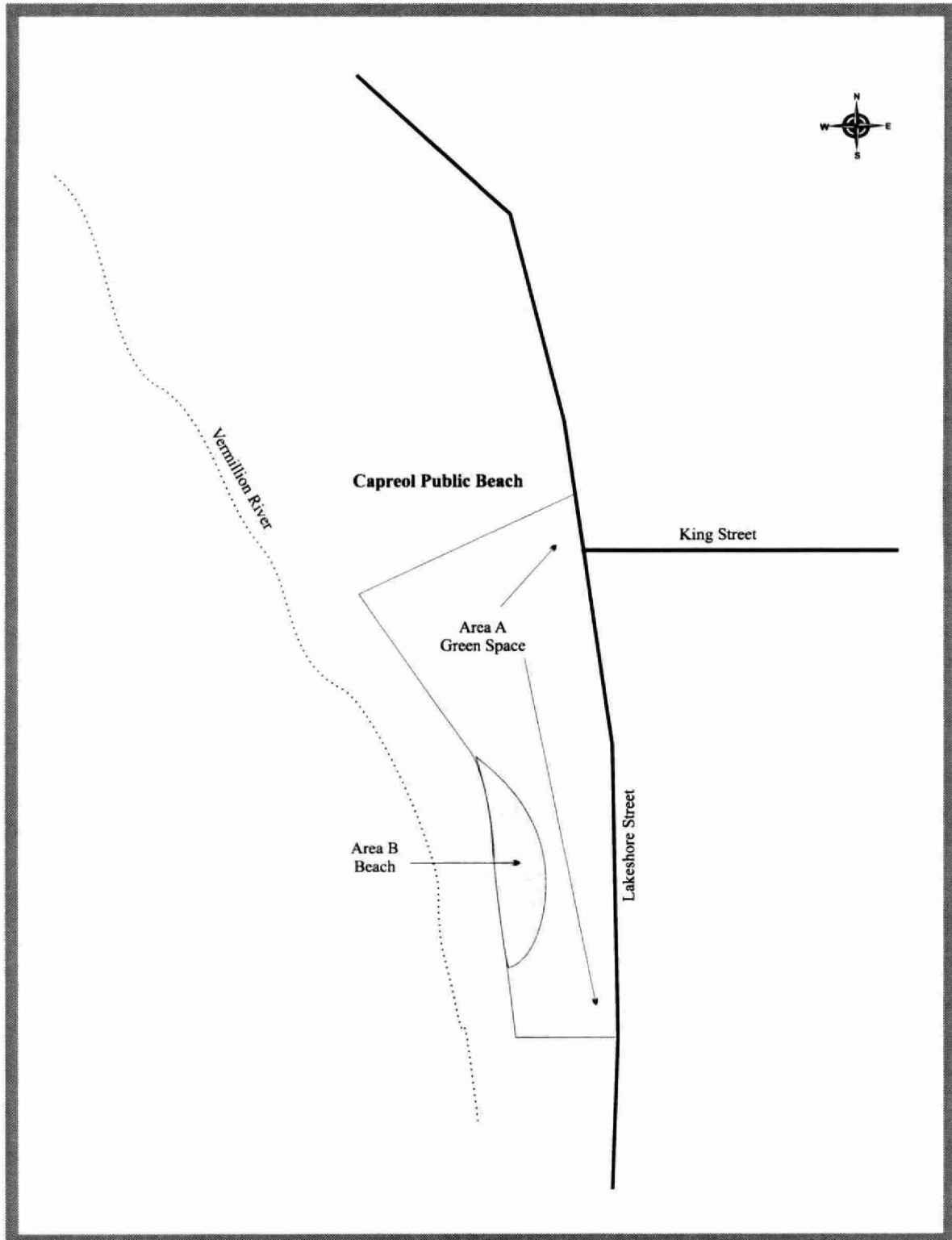


Map C5.6.1: Carrefour Sen. Rheal Belisle Sports Complex, Blezzard Valley - 2001.

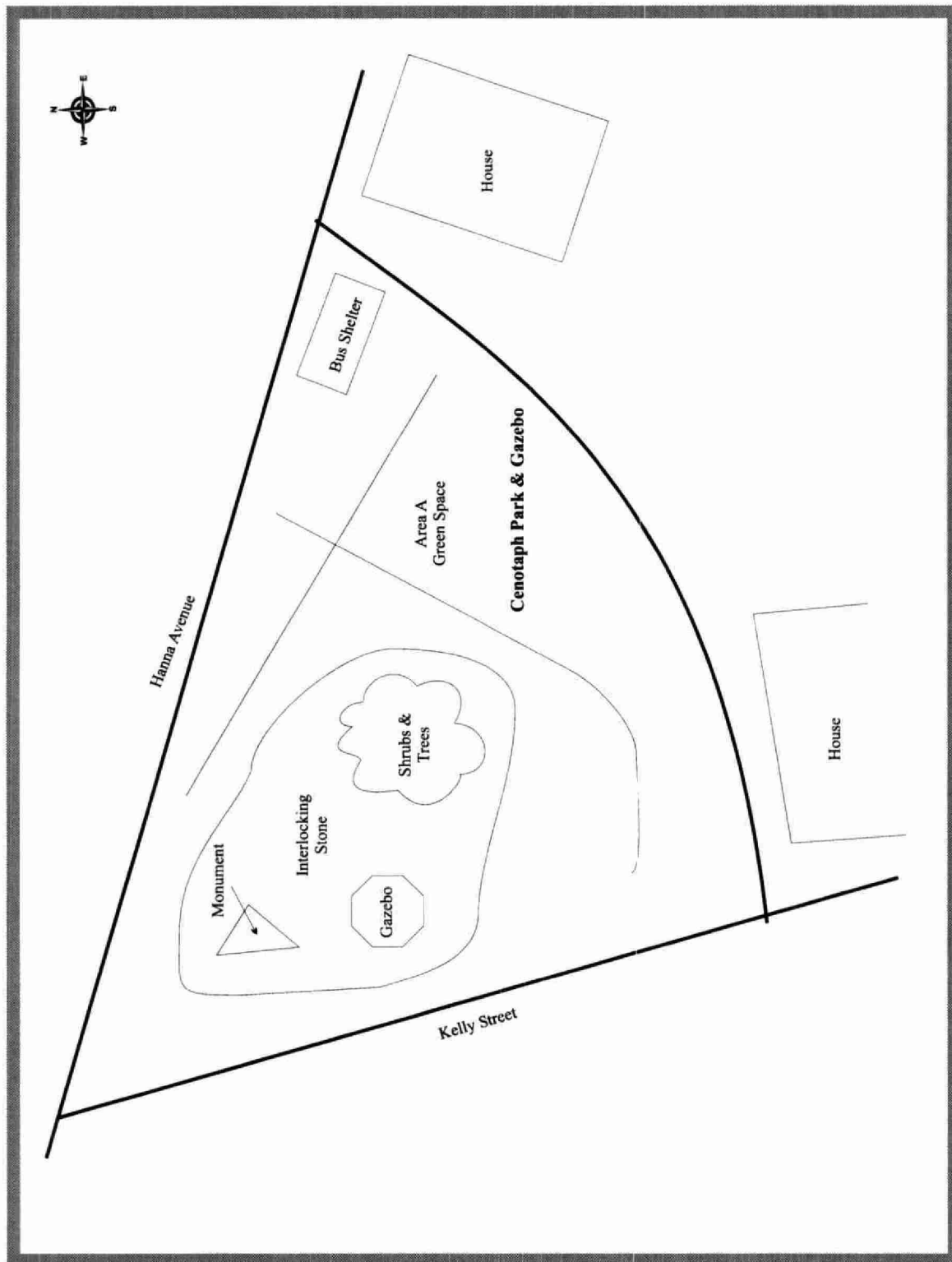
5.7 Capreol Park Maps



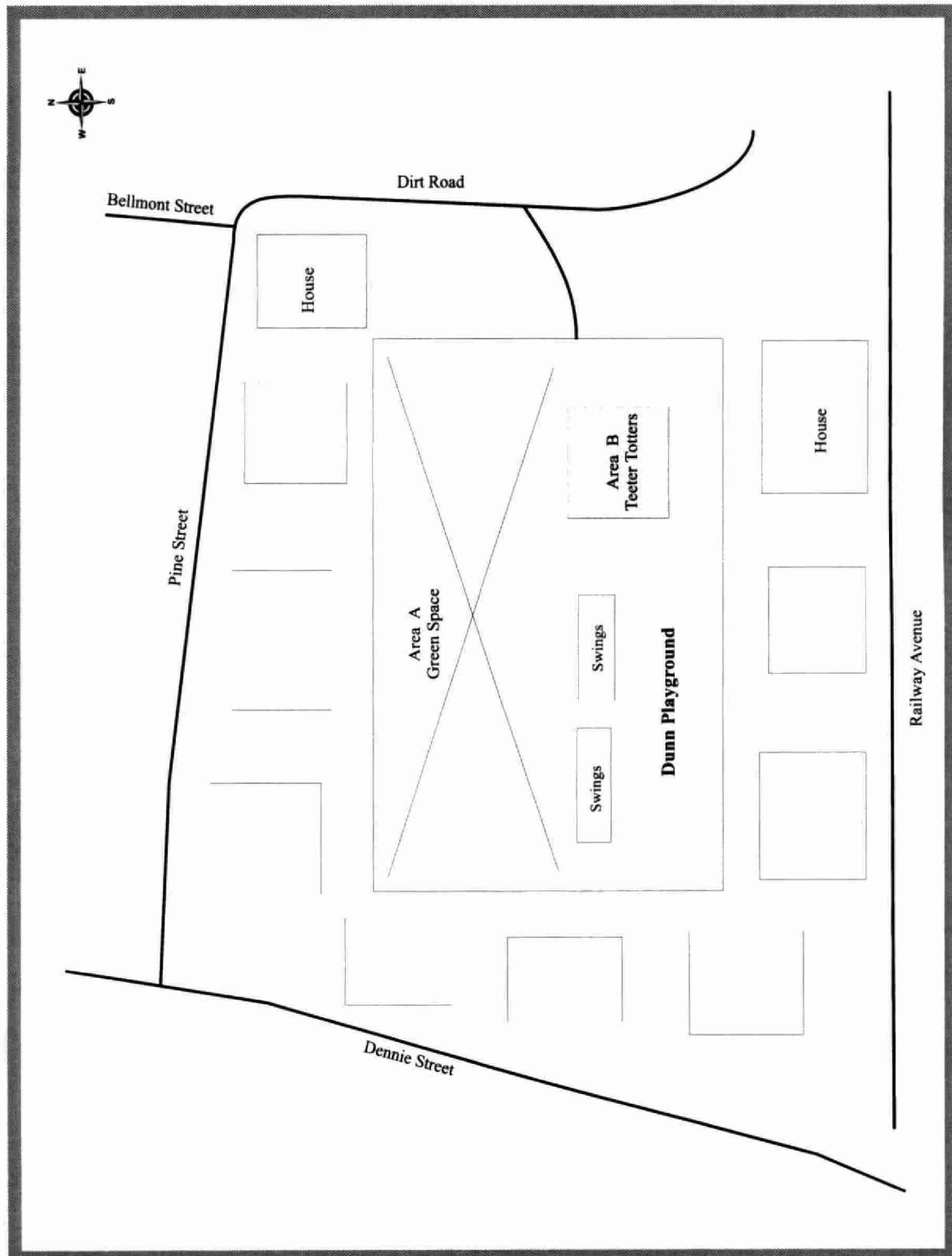
Map C5.7.1: Capreol Centennial Recreation Park, including Doug Mohn's Park, Capreol - 2001.



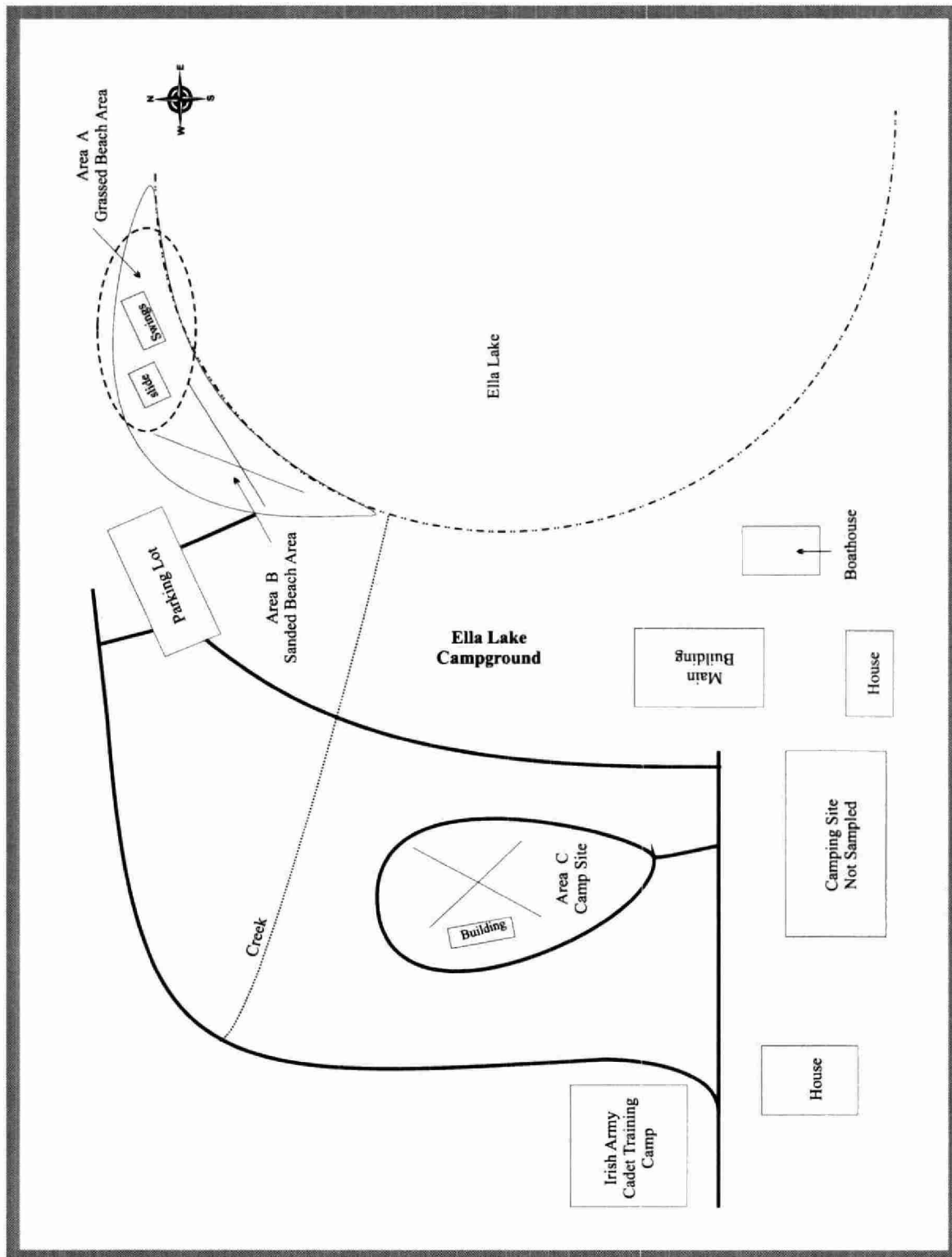
Map C5.7.2: Capreol Public Beach, Capreol - 2001.



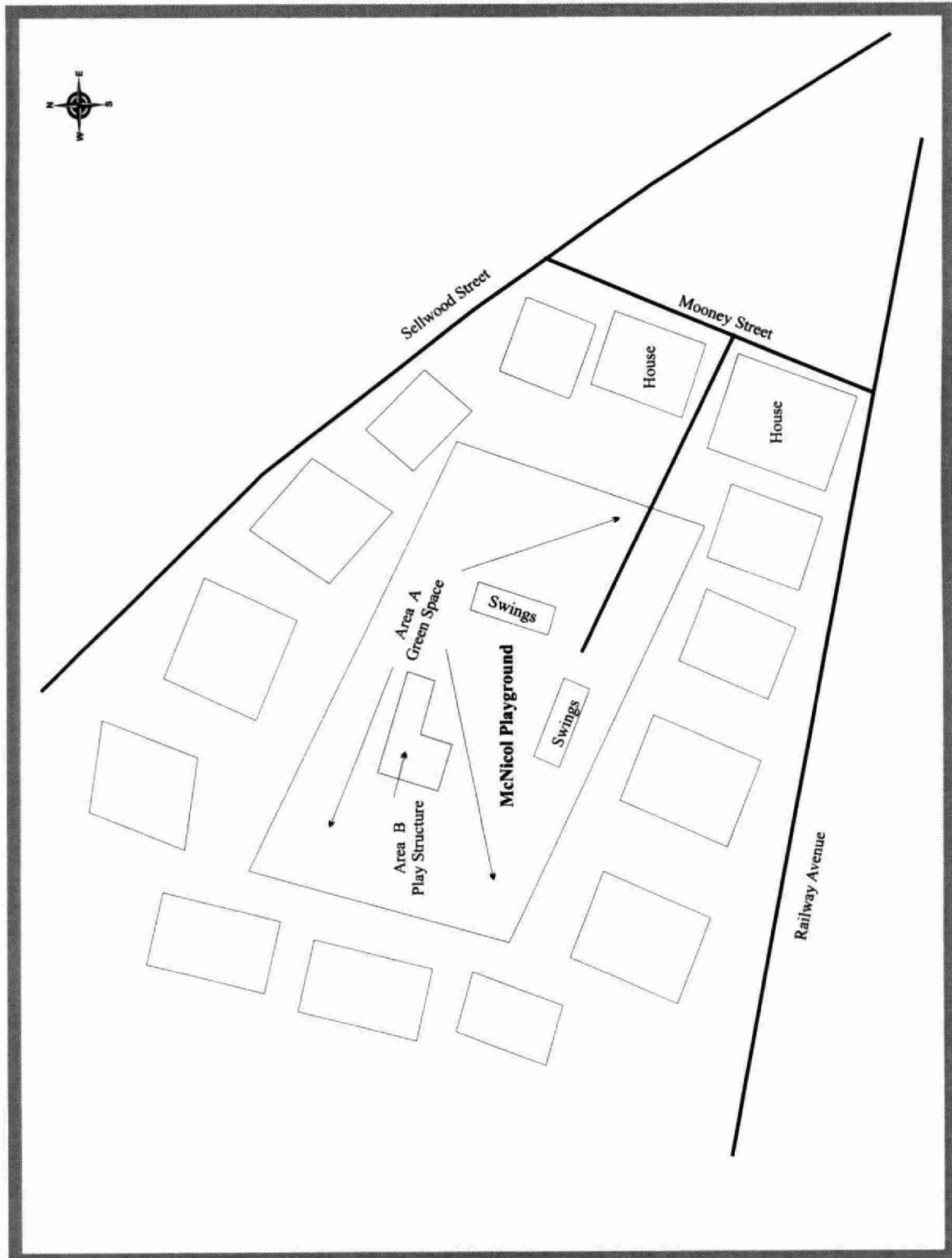
Map C5.7.3: Cenotaph Park, Capreol - 2001.



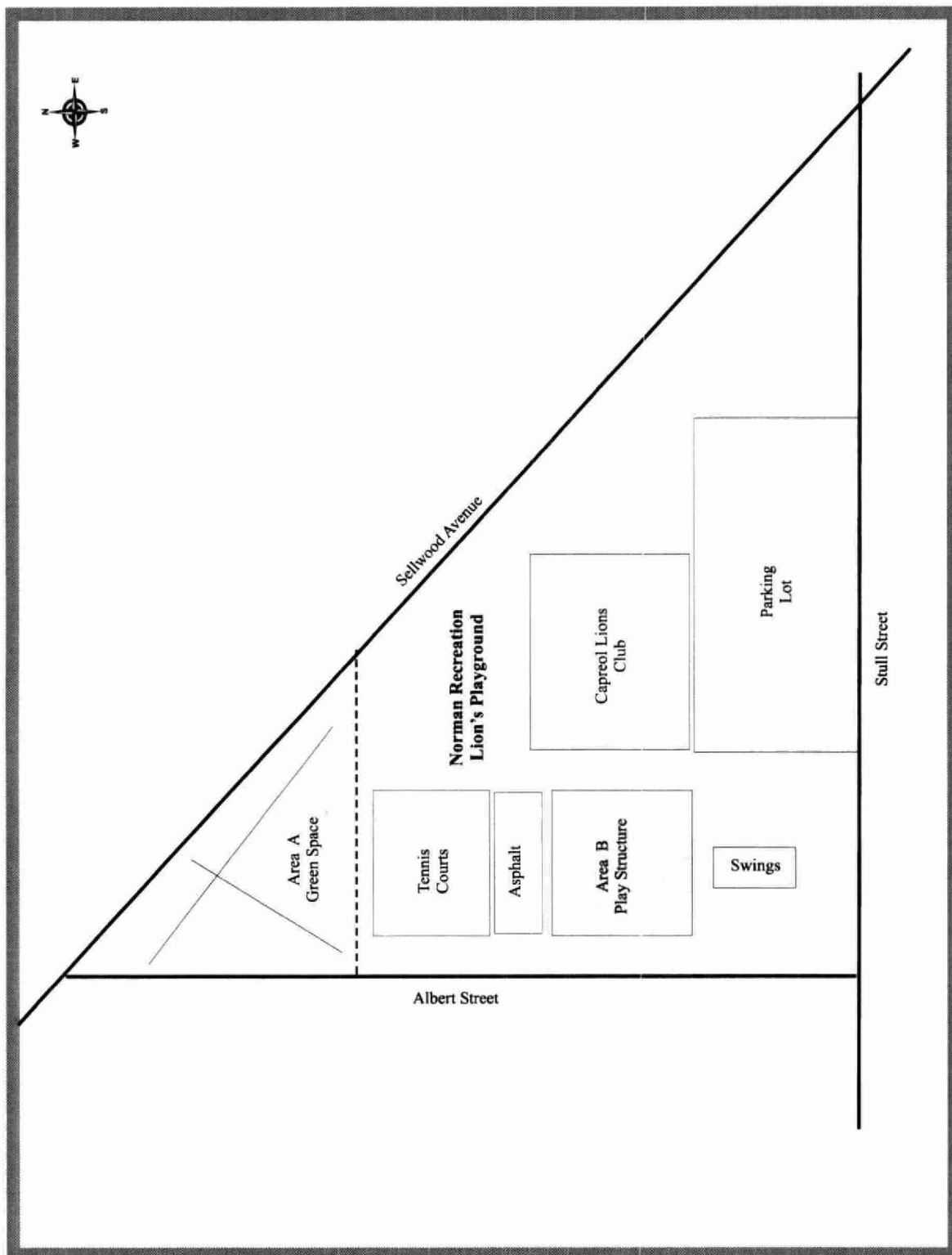
Map C5.7.4: Dunn Park, Capreol - 2001.



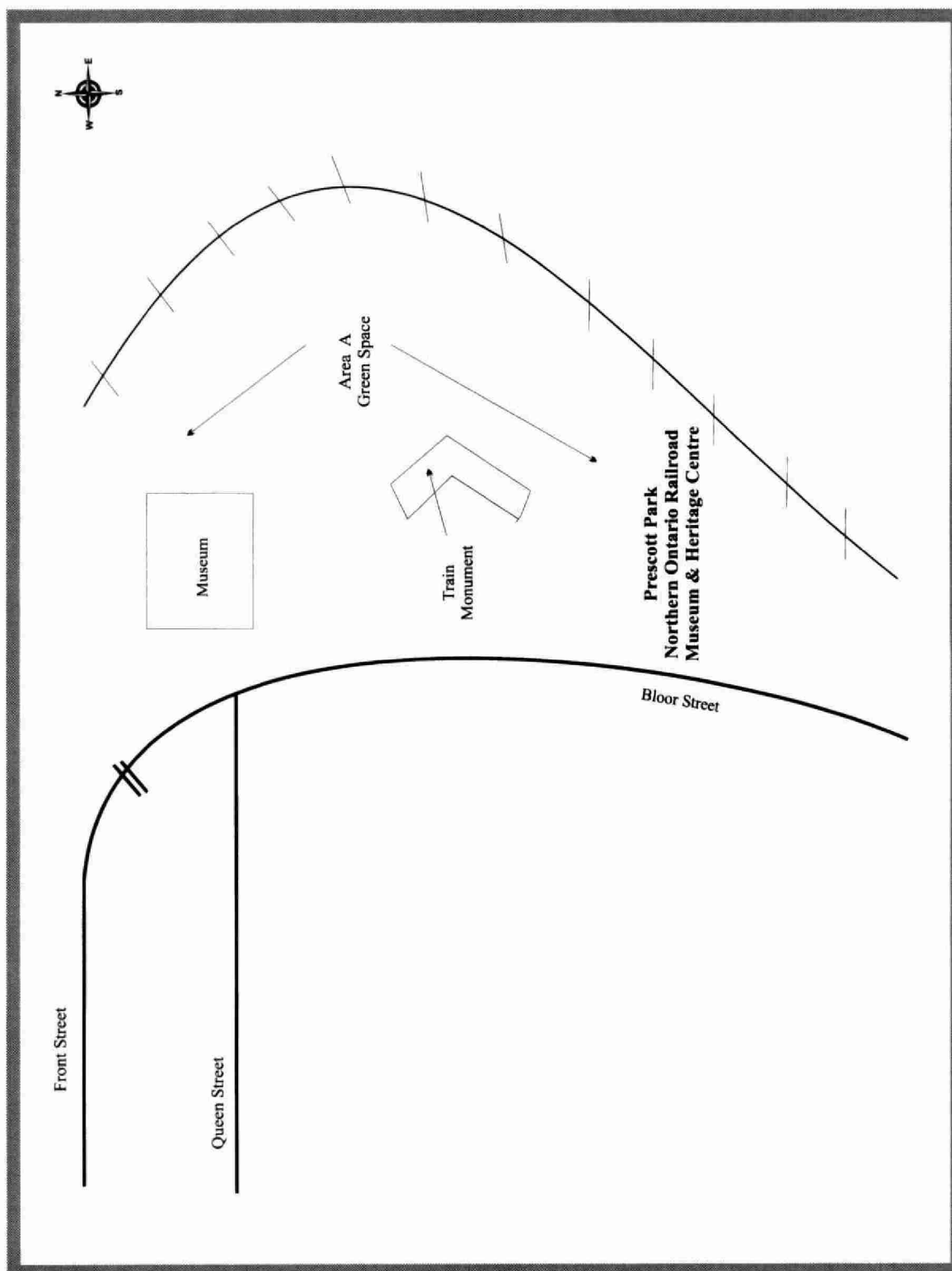
Map C5.7.5: Ella Lake Campground, Capreol - 2001.



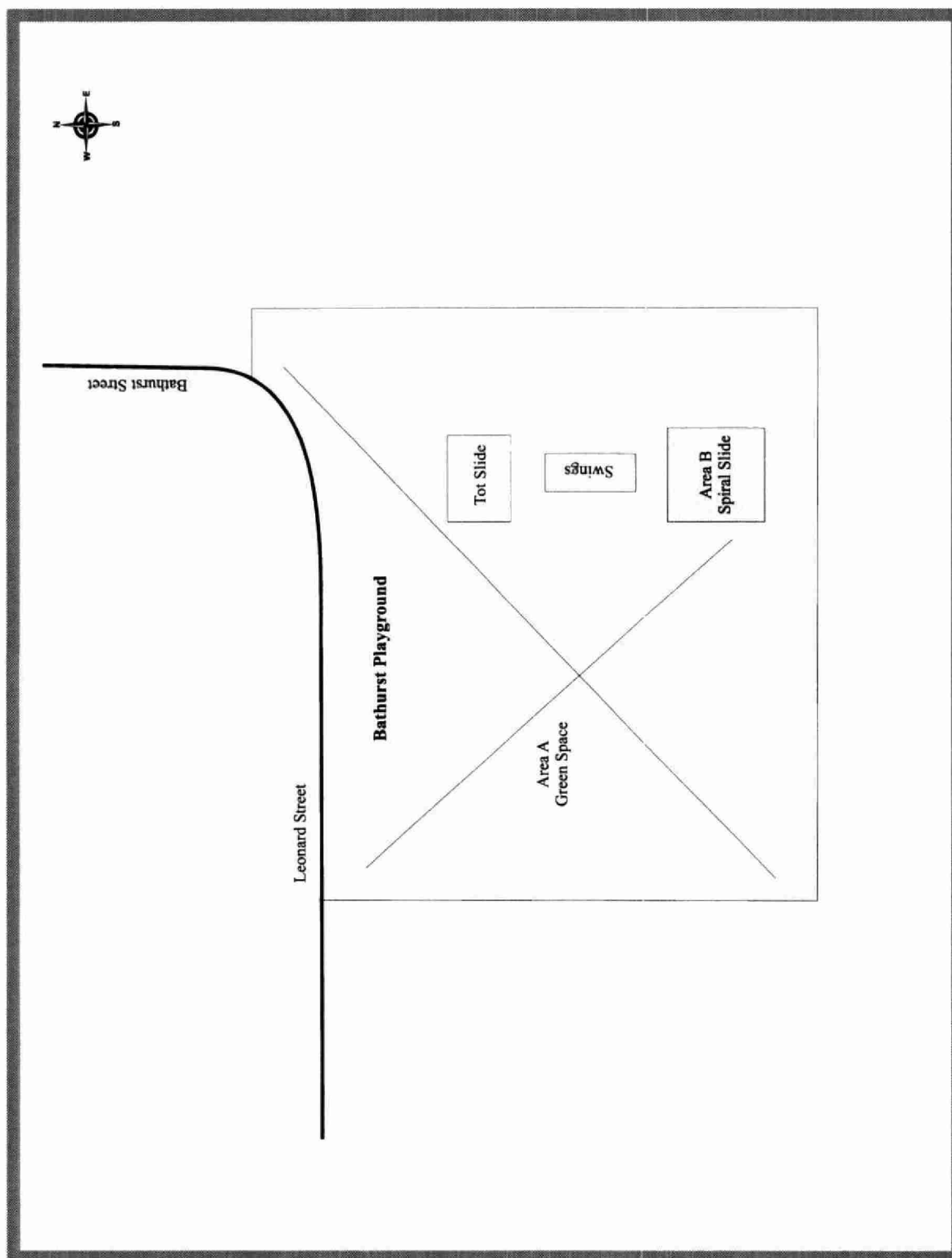
Map C5.7.6: McNicol Playground, Capreol - 2001.

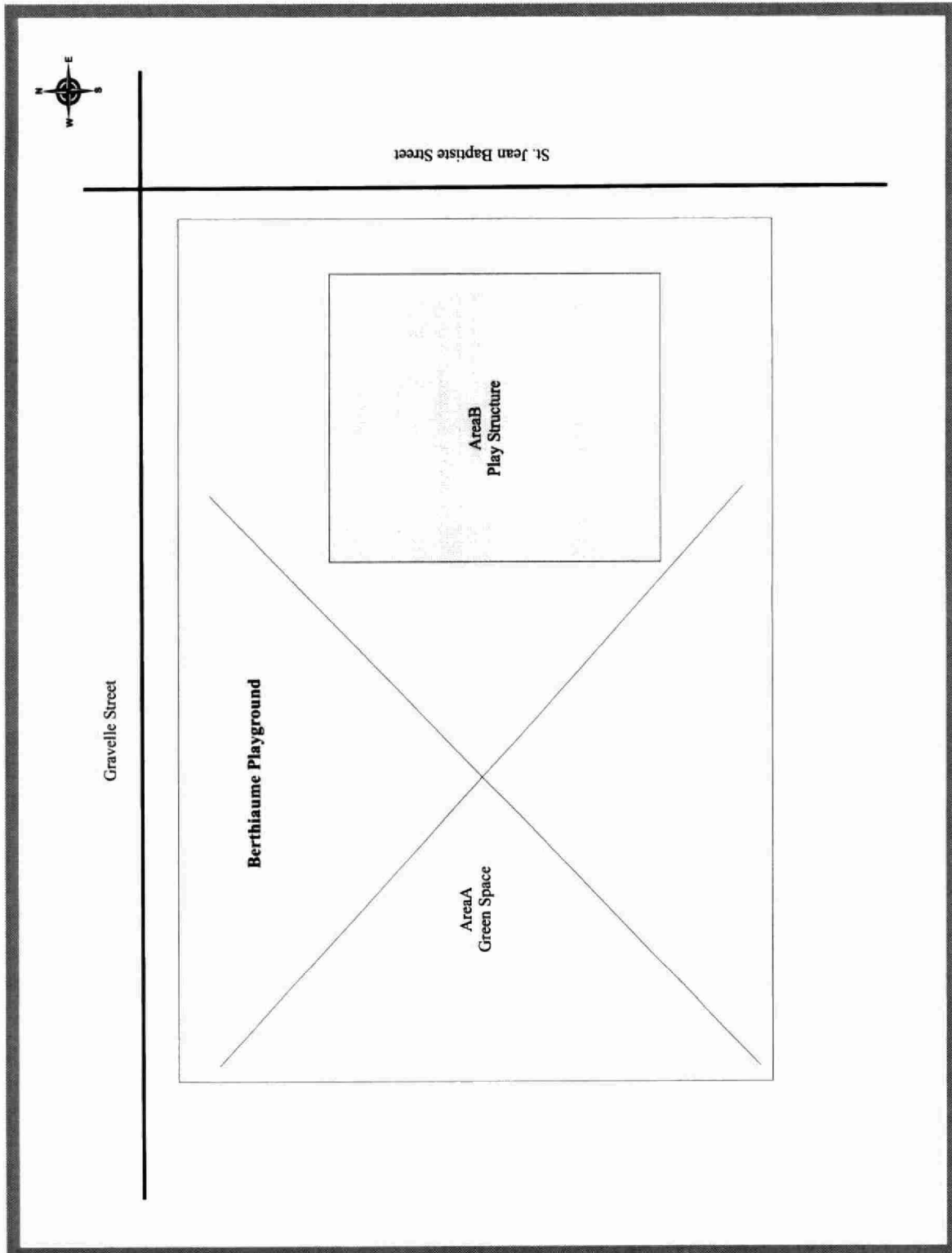


Map C5.7.7: Norman Rec. Lion's Playground (Capreol Lion's Den), Capreol - 2001.

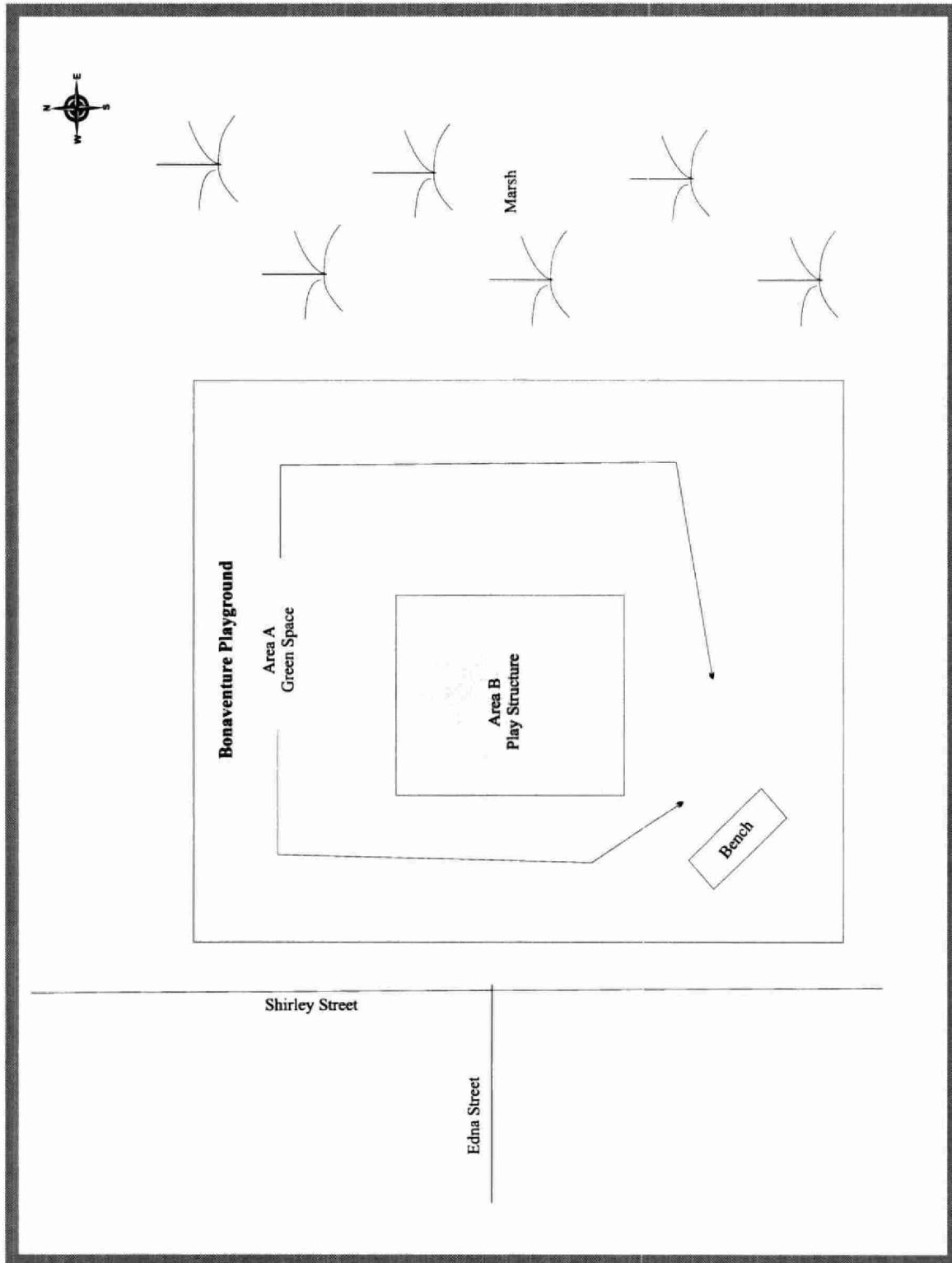


Map C5.7.8: Prescott Park, Capreol - 2001.

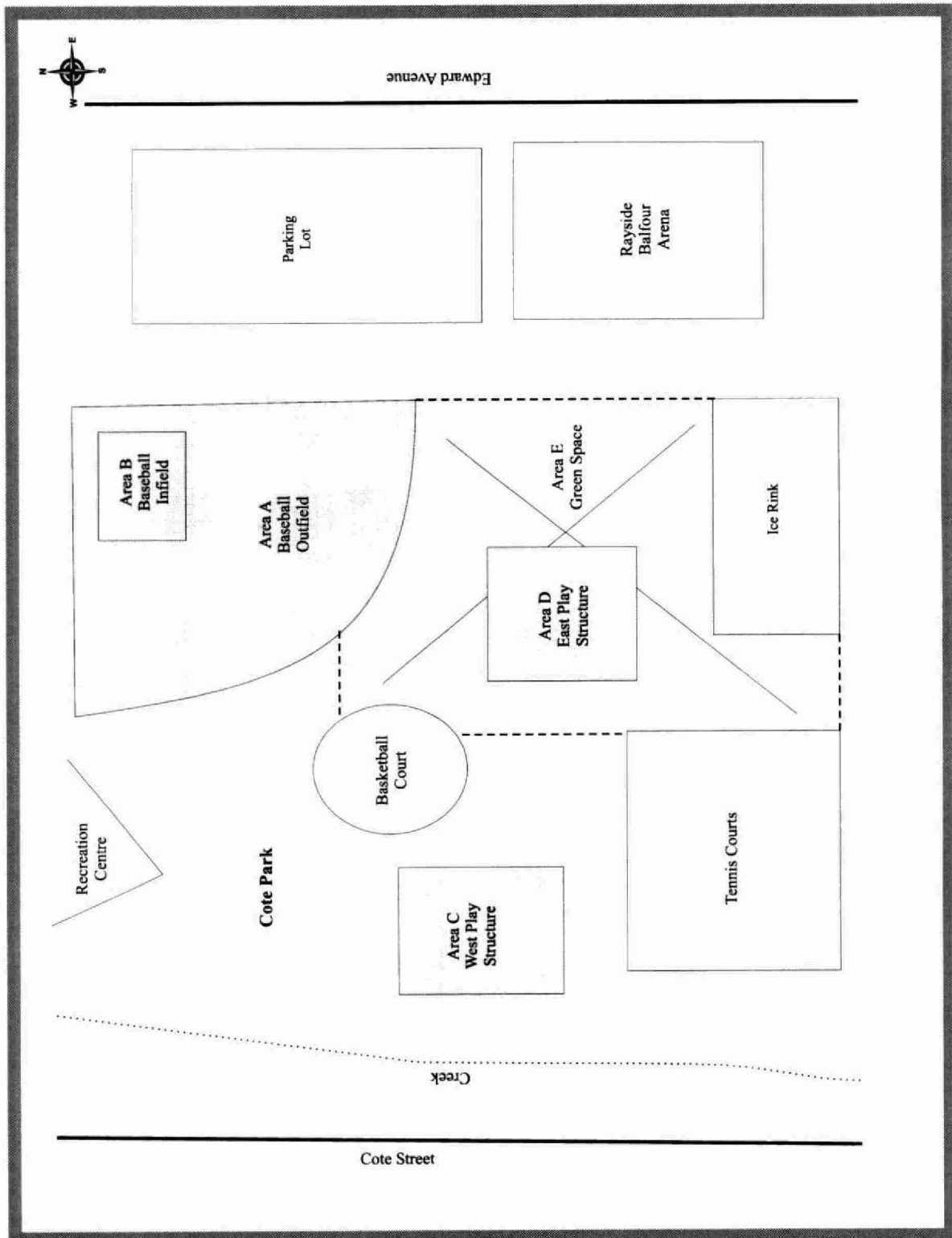
5.8 Chelmsford Park Maps**Map C5.8.1: Bathurst Playground, Chelmsford - 2001.**



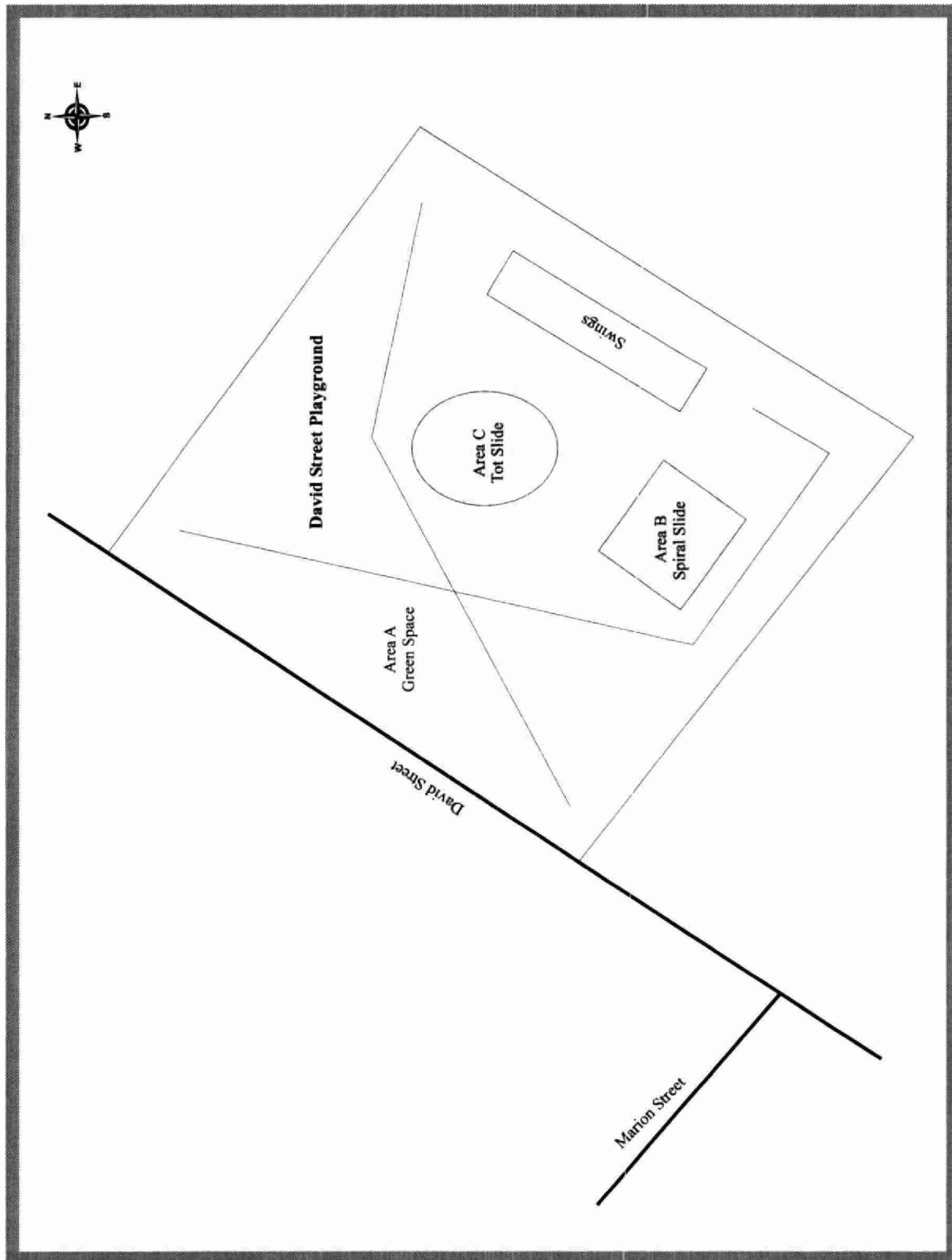
Map C5.8.2: Berthiaume Playground, Chelmsford - 2001.



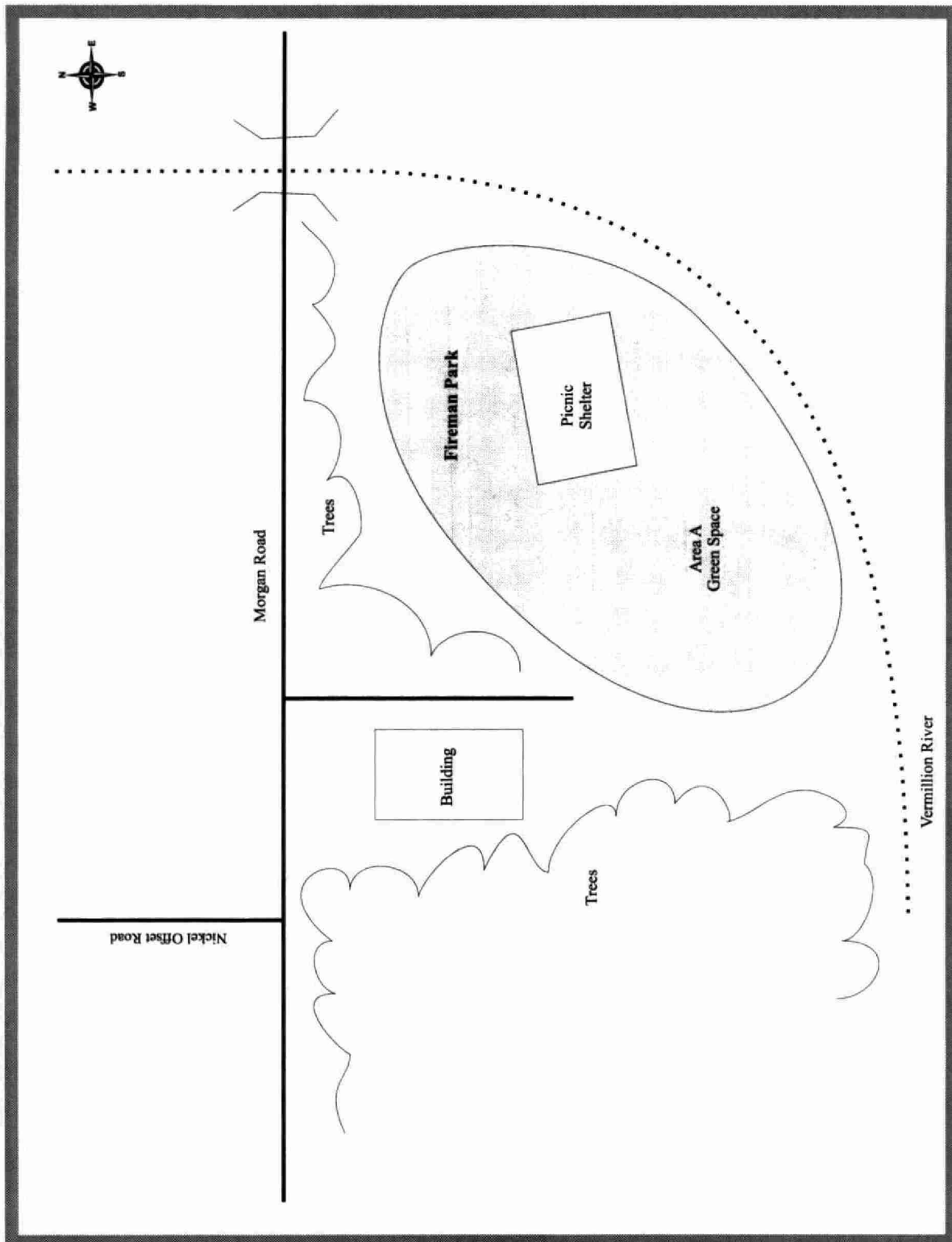
Map C5.8.3: Bonaventure Playground (Shirley Playground), Chelmsford - 2001.



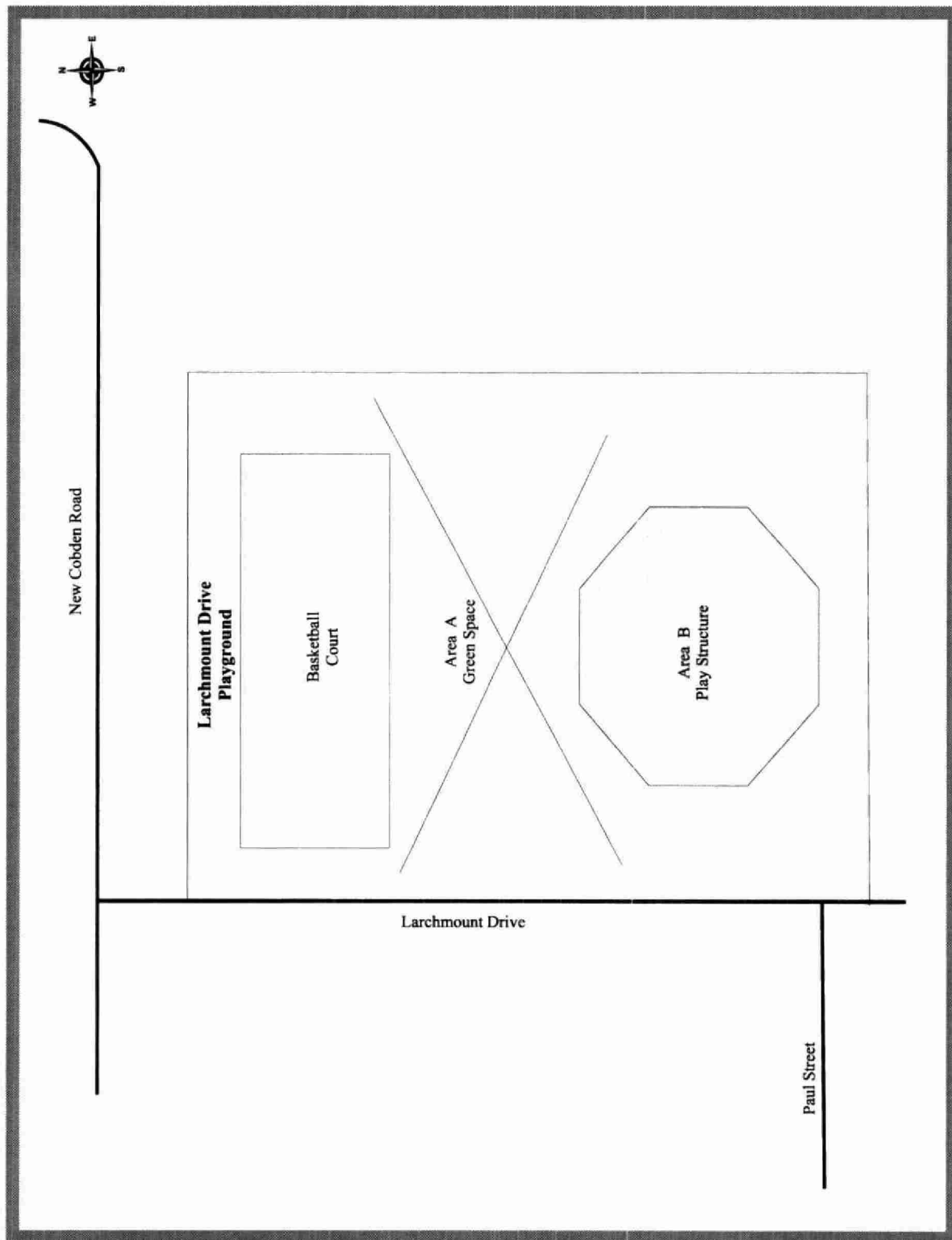
Map C5.8.4: Cote Park, Chelmsford - 2001.



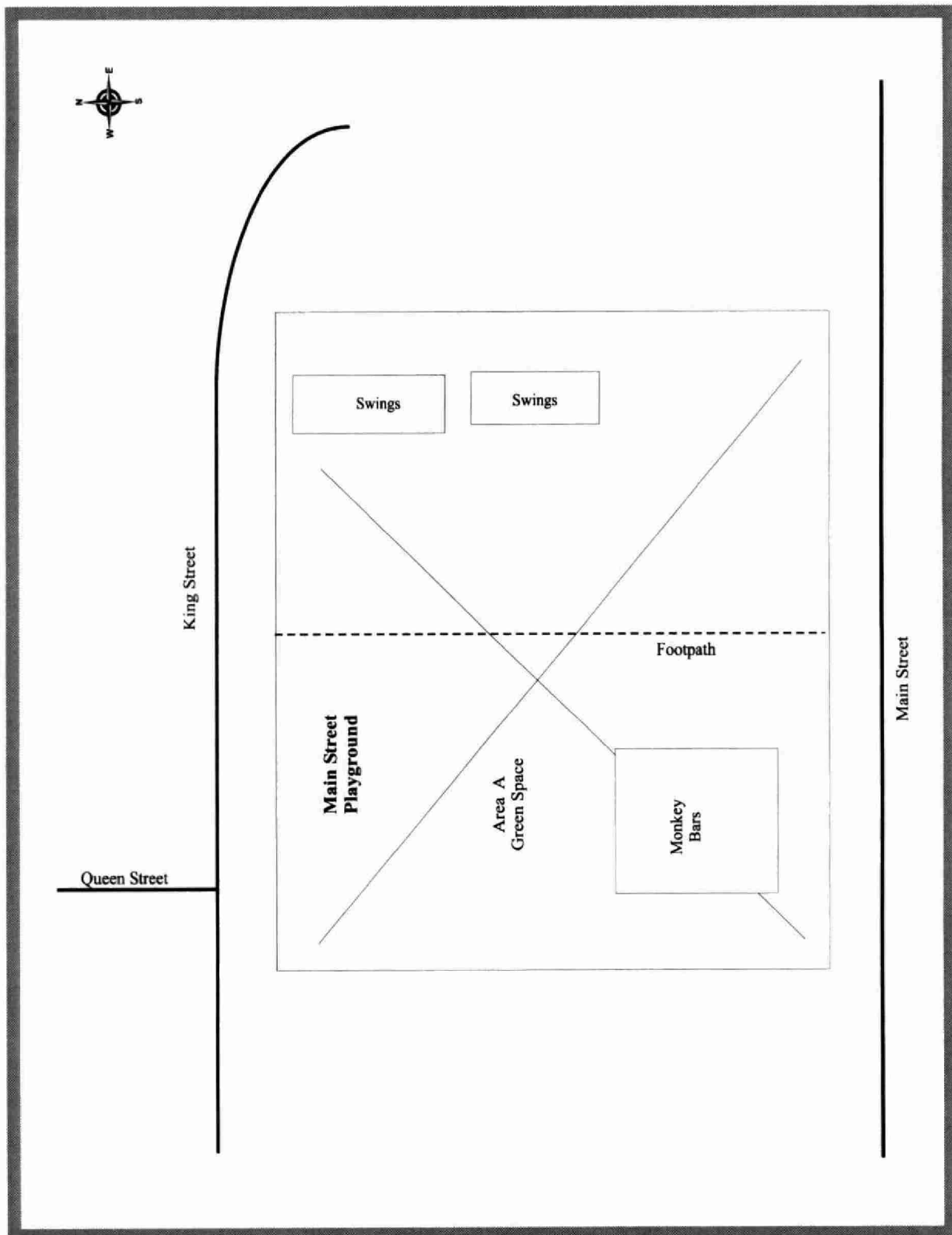
Map C5.8.5: David Street Playground, Chelmsford - 2001.



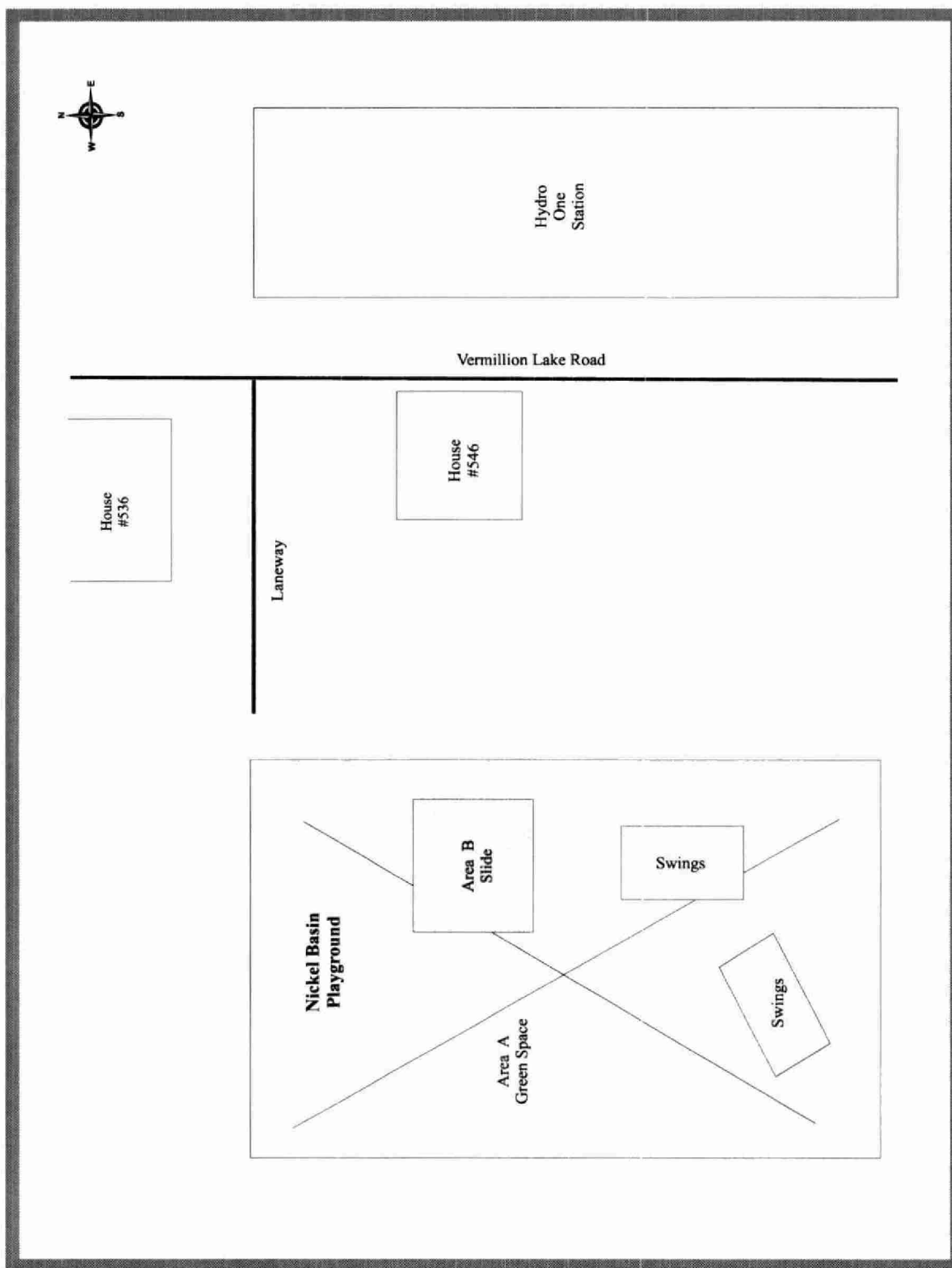
Map C5.8.6: Fireman Park, Chelmsford - 2001.



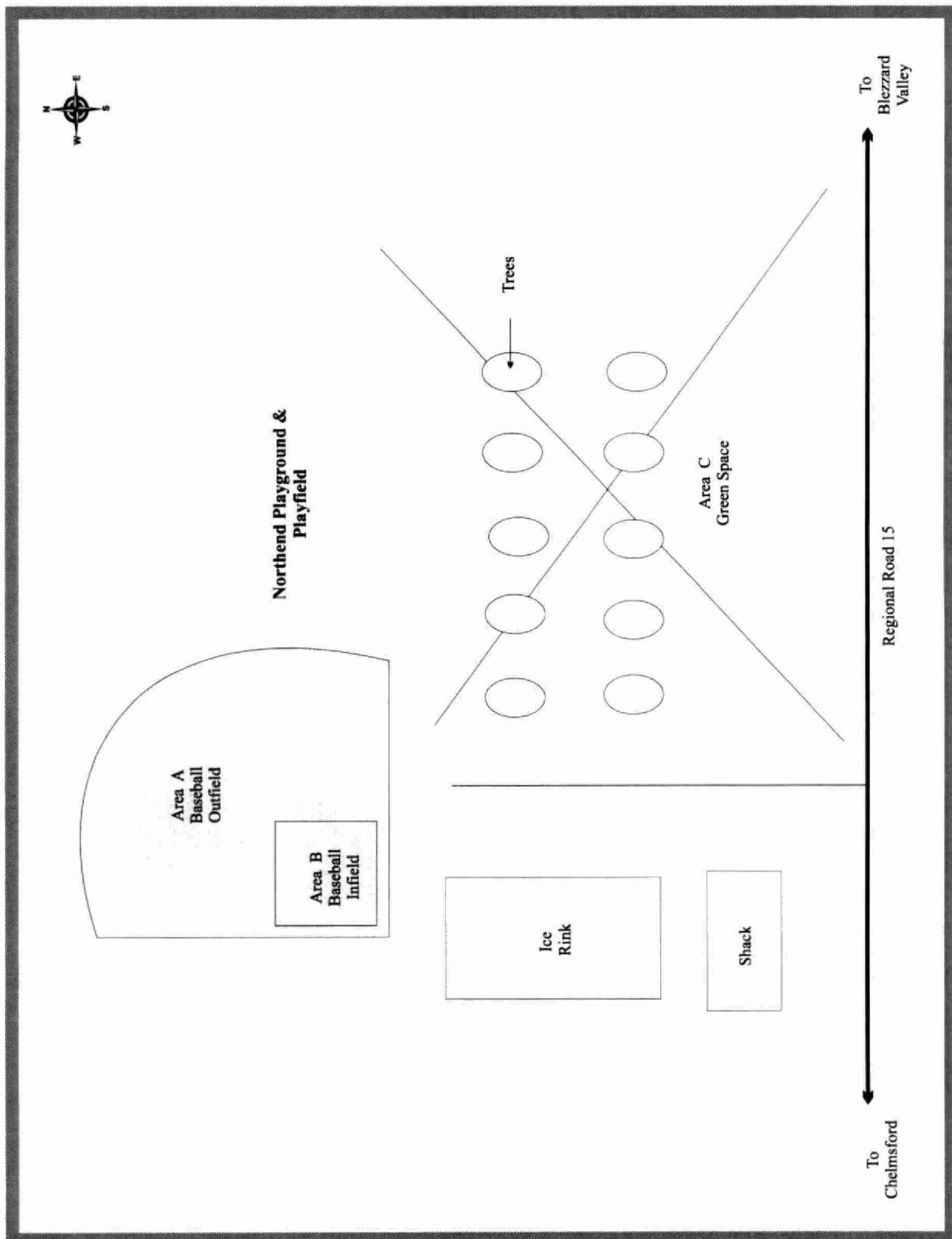
Map C5.8.7: Larchmount Drive Playground, Chelmsford - 2001.



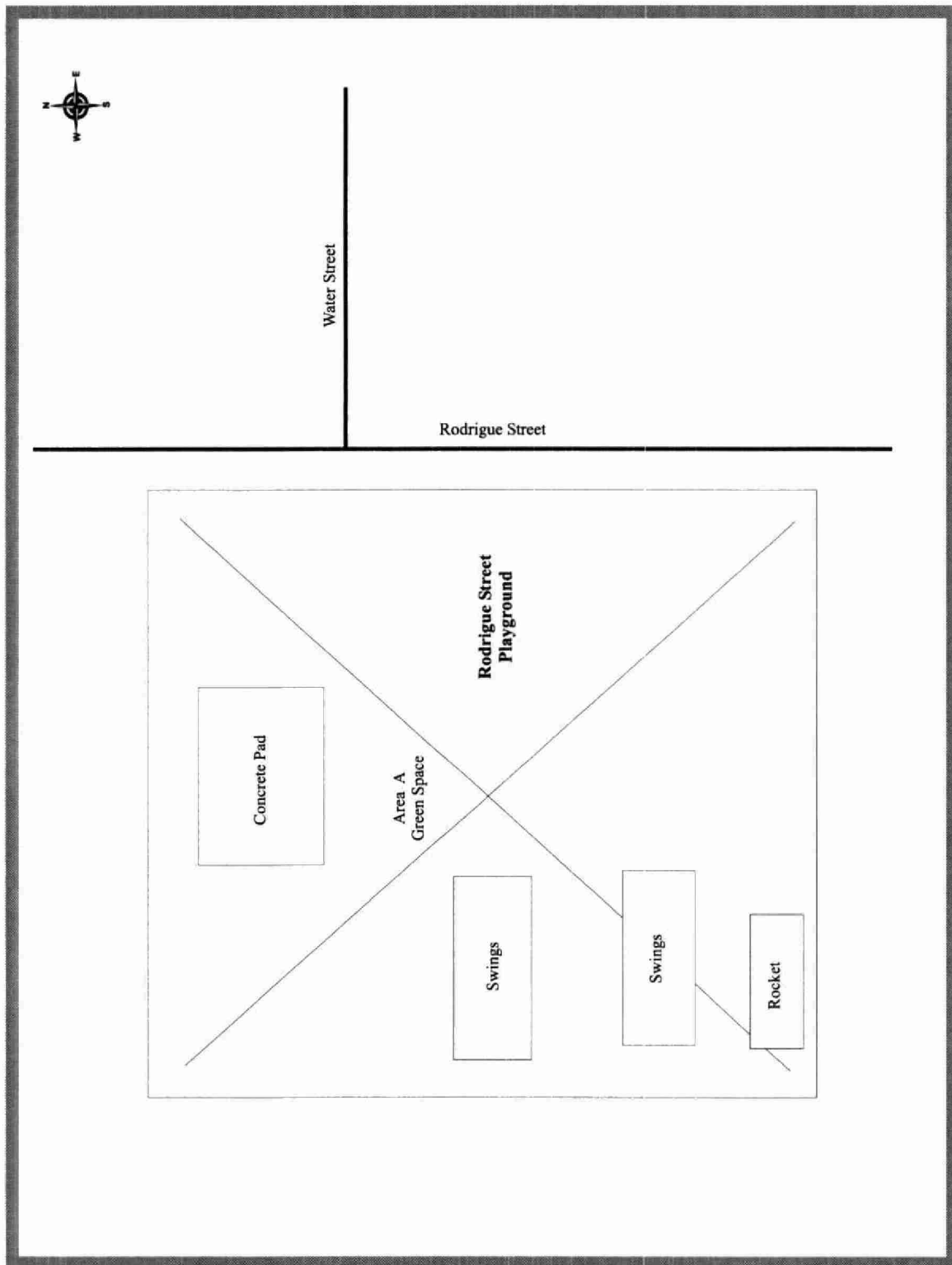
Map C5.8.8: Main Street Playground, Chelmsford - 2001.

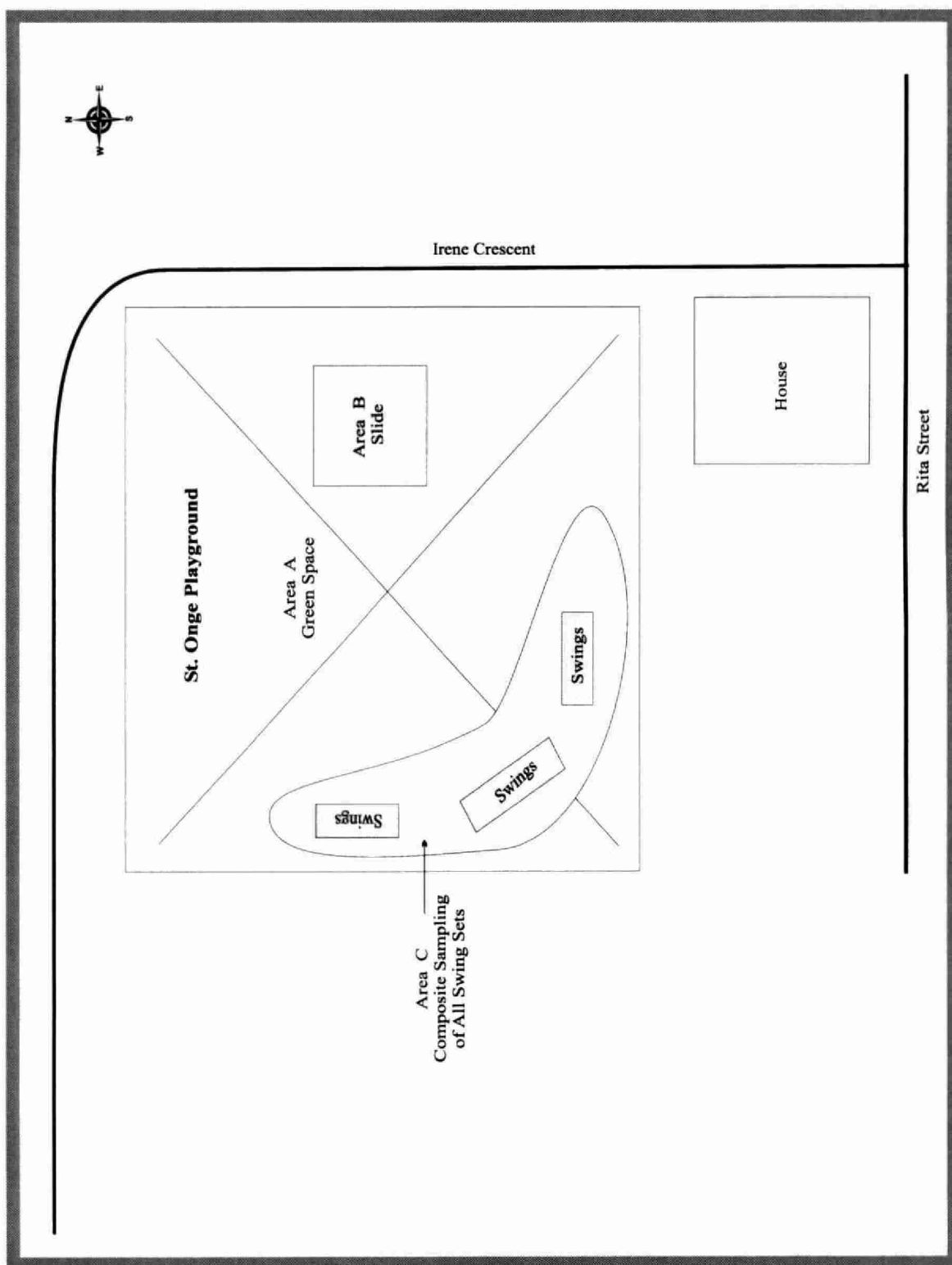


Map C5.8.9: Nickel Basin Playground, Chelmsford - 2001.

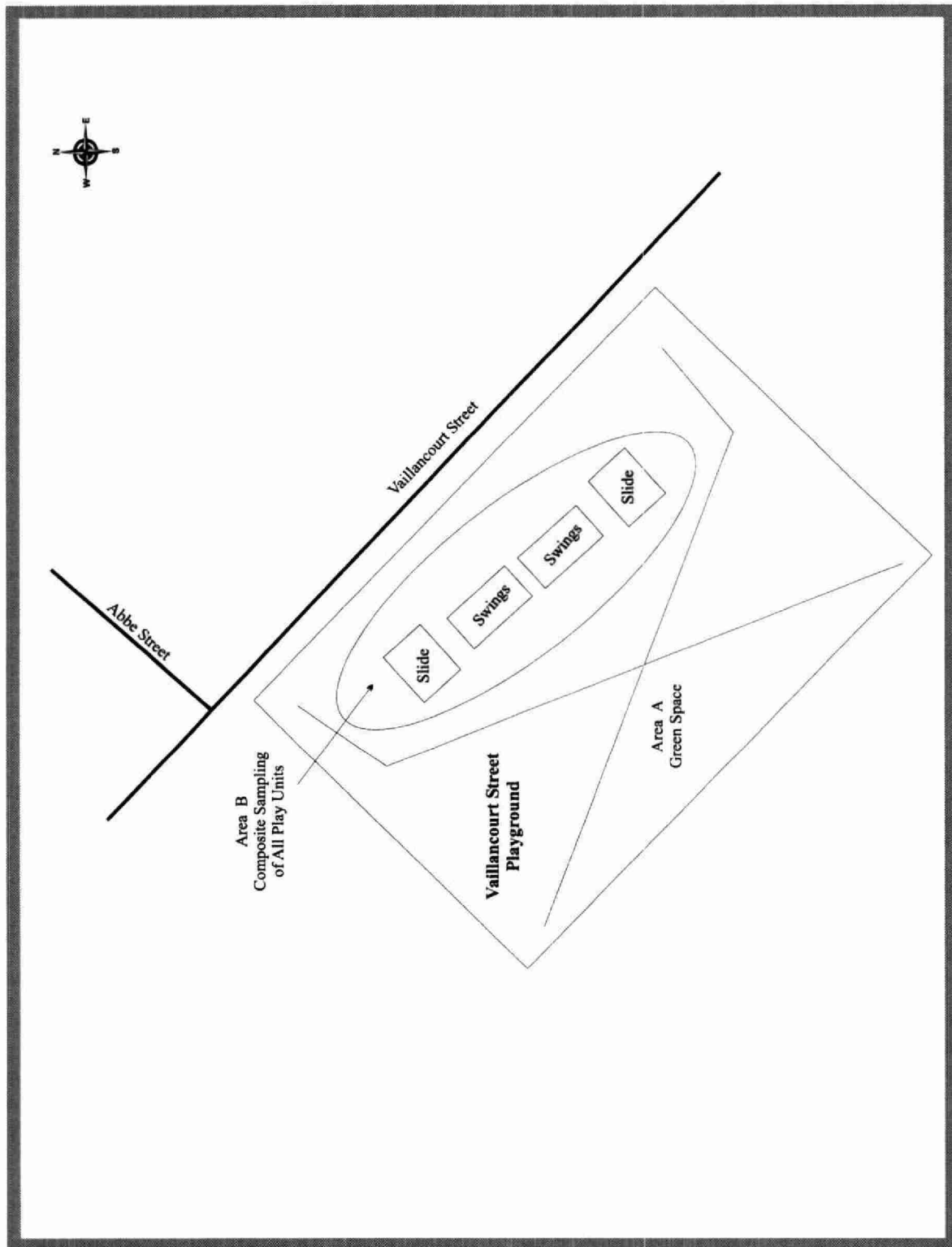


Map C5.8.10: Northend Playground and Playfields, Chelmsford - 2001.

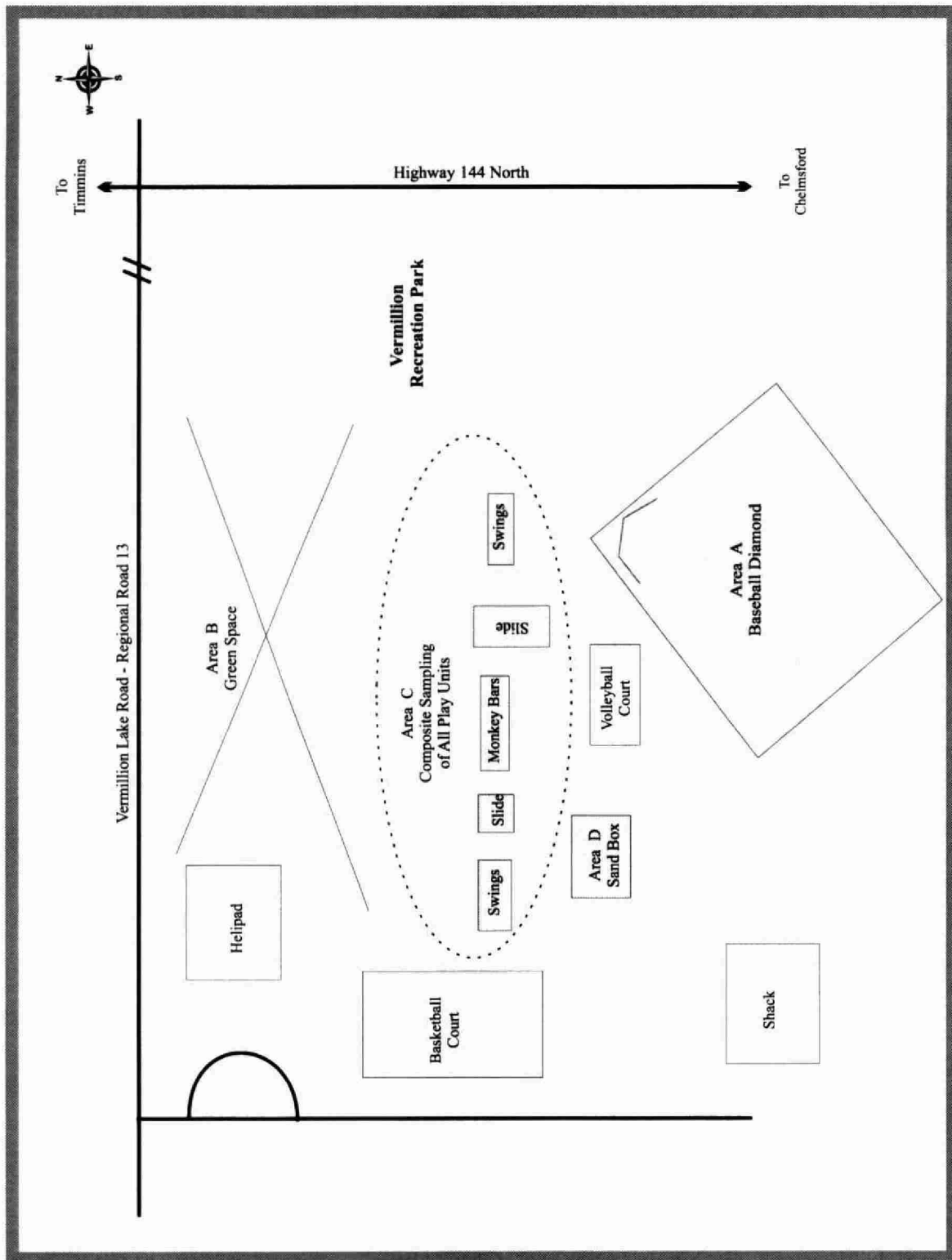




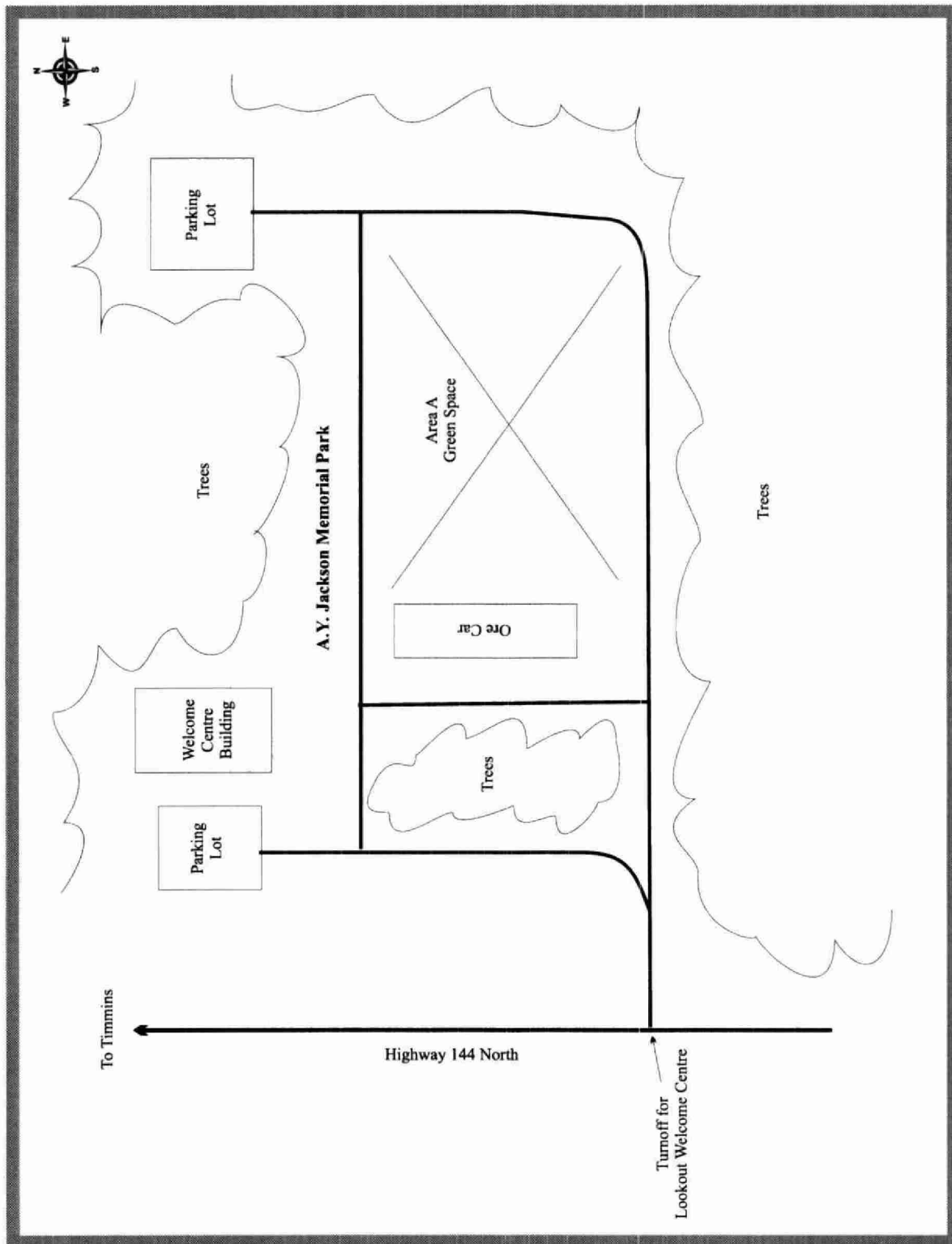
Map C5.8.12: St. Onge Playground (Irene Playground), Chelmsford - 2001.

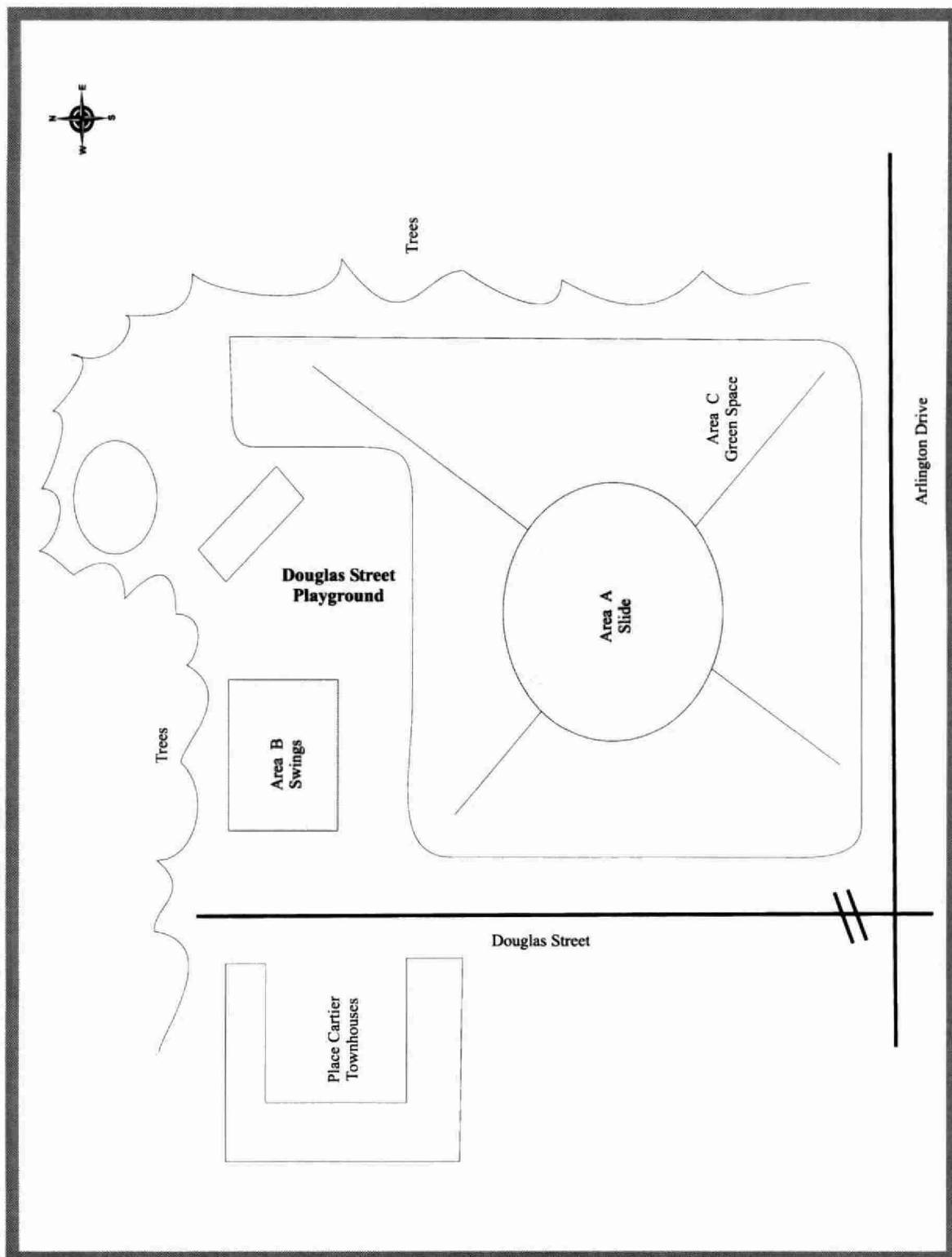


Map C5.8.13: Vaillancourt Street Playground, Chelmsford - 2001.

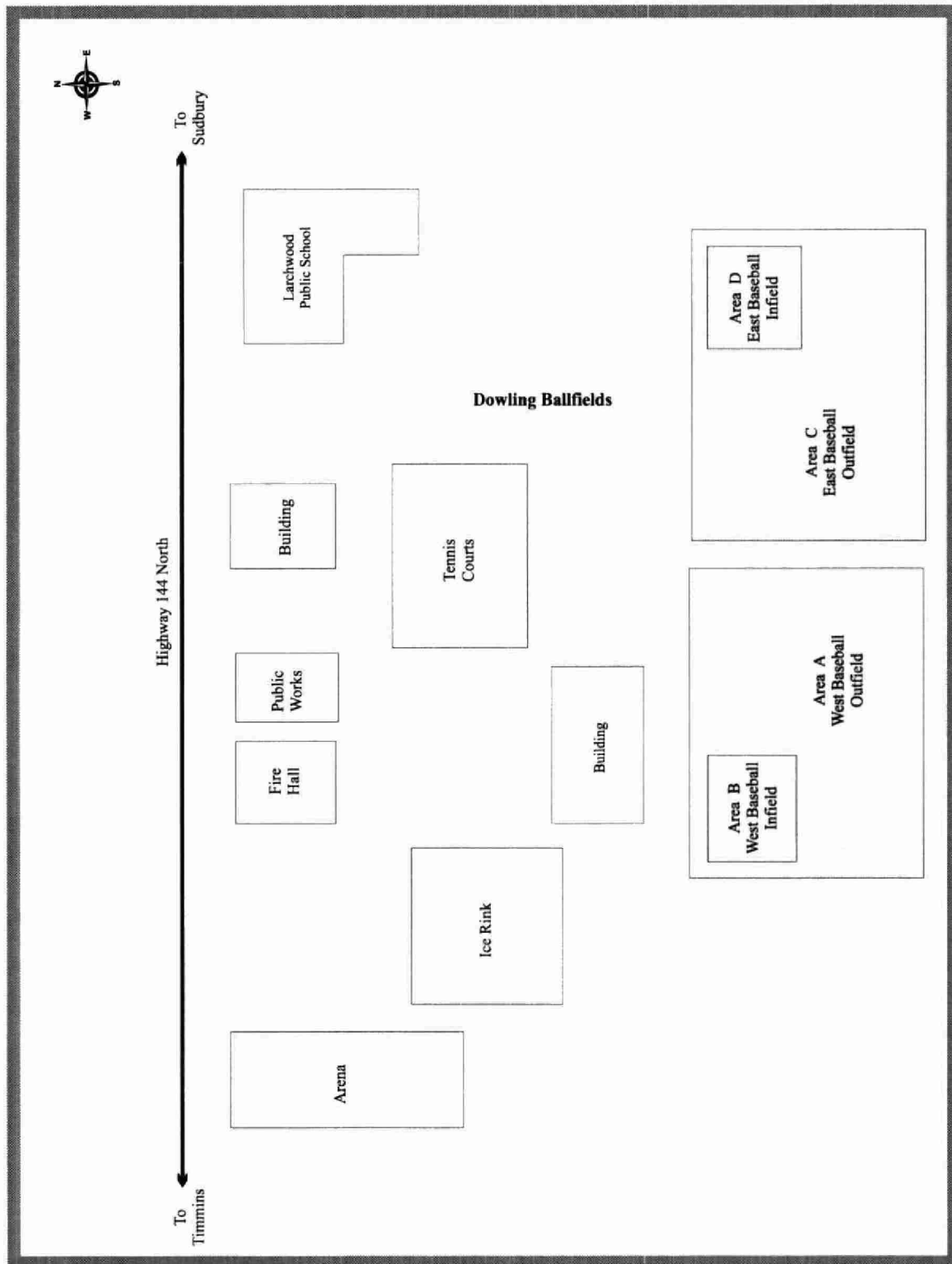


Map C5.8.14: Vermillion Lake Road Park, Chelmsford - 2001.

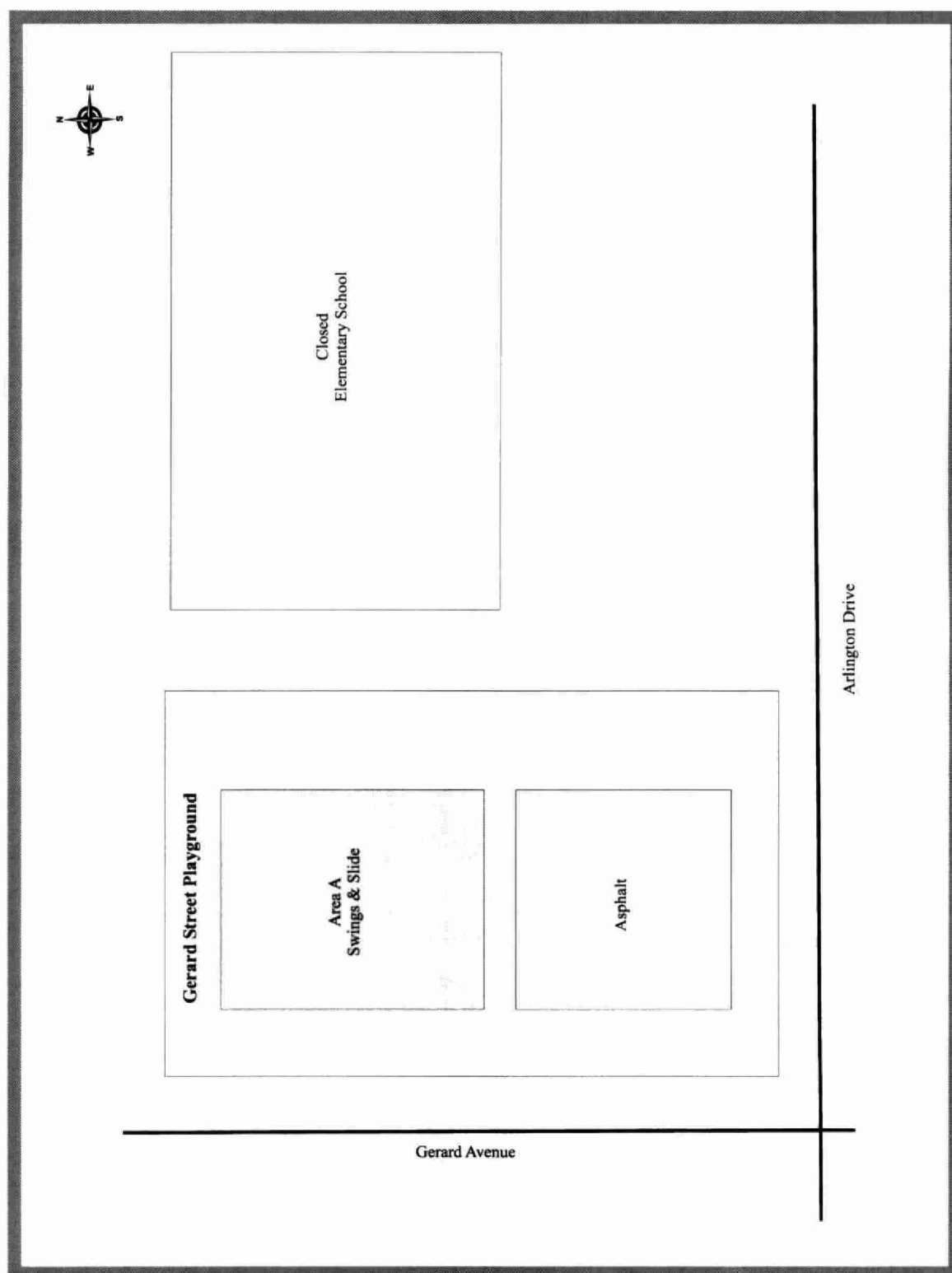
5.9 Dowling Park Maps**Map C5.9.1: A.Y. Jackson Memorial Park, Dowling - 2001.**



Map C5.9.2: Douglas Street Playground, Dowling - 2001.

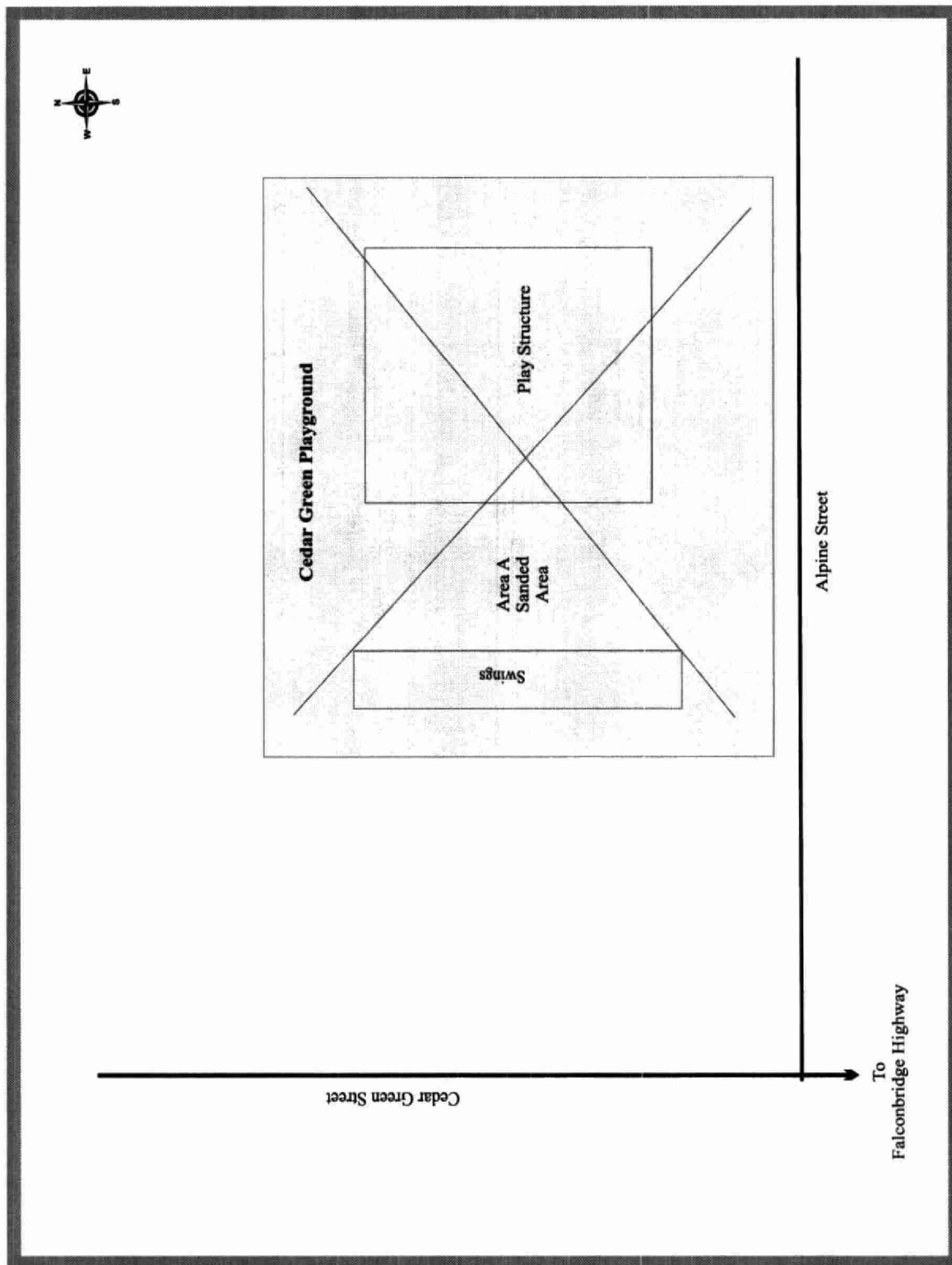


Map C5.9.3: Dowling Ballfields, Dowling - 2001.

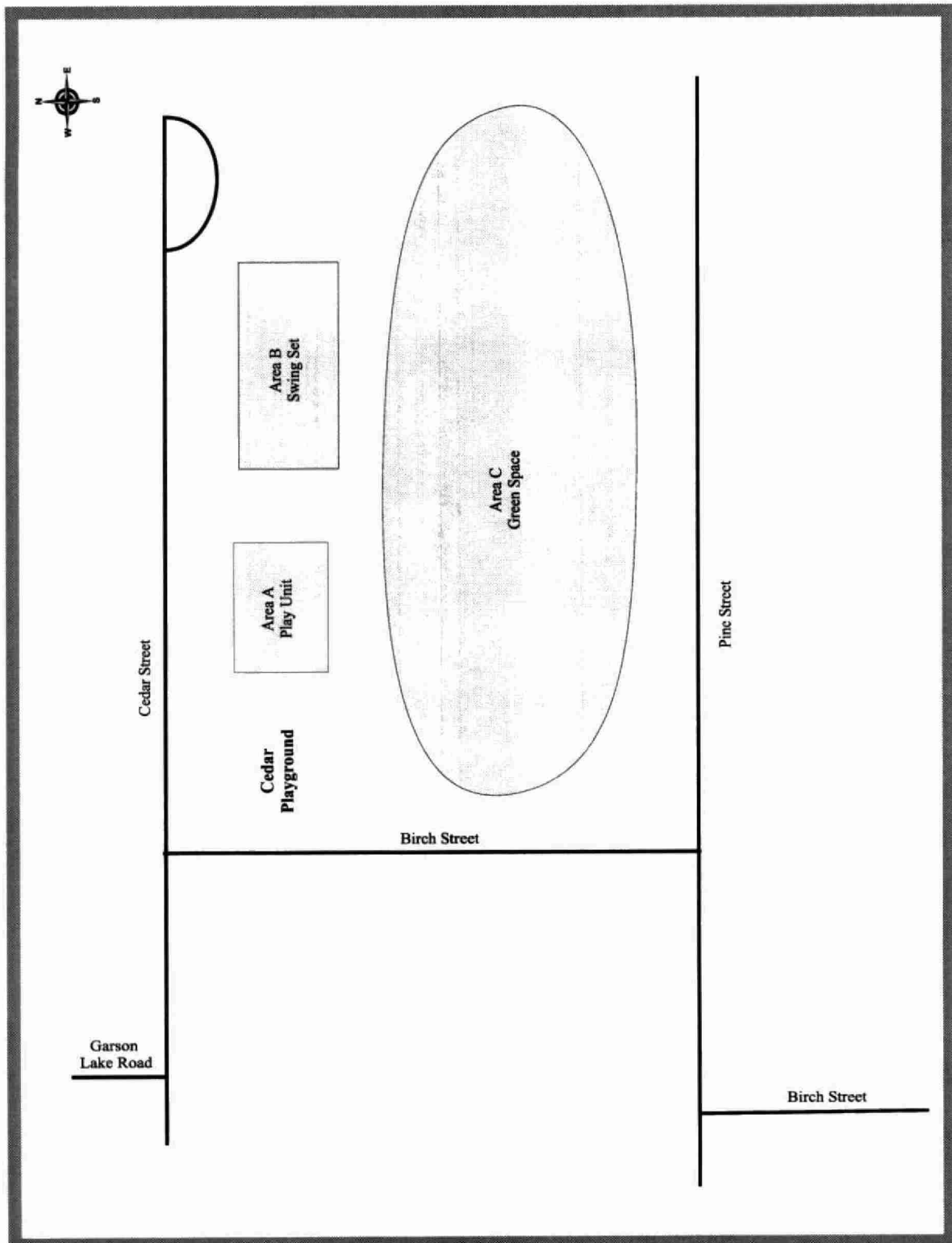


Map C5.9.4: Gerard Street Playground, Dowling - 2001.

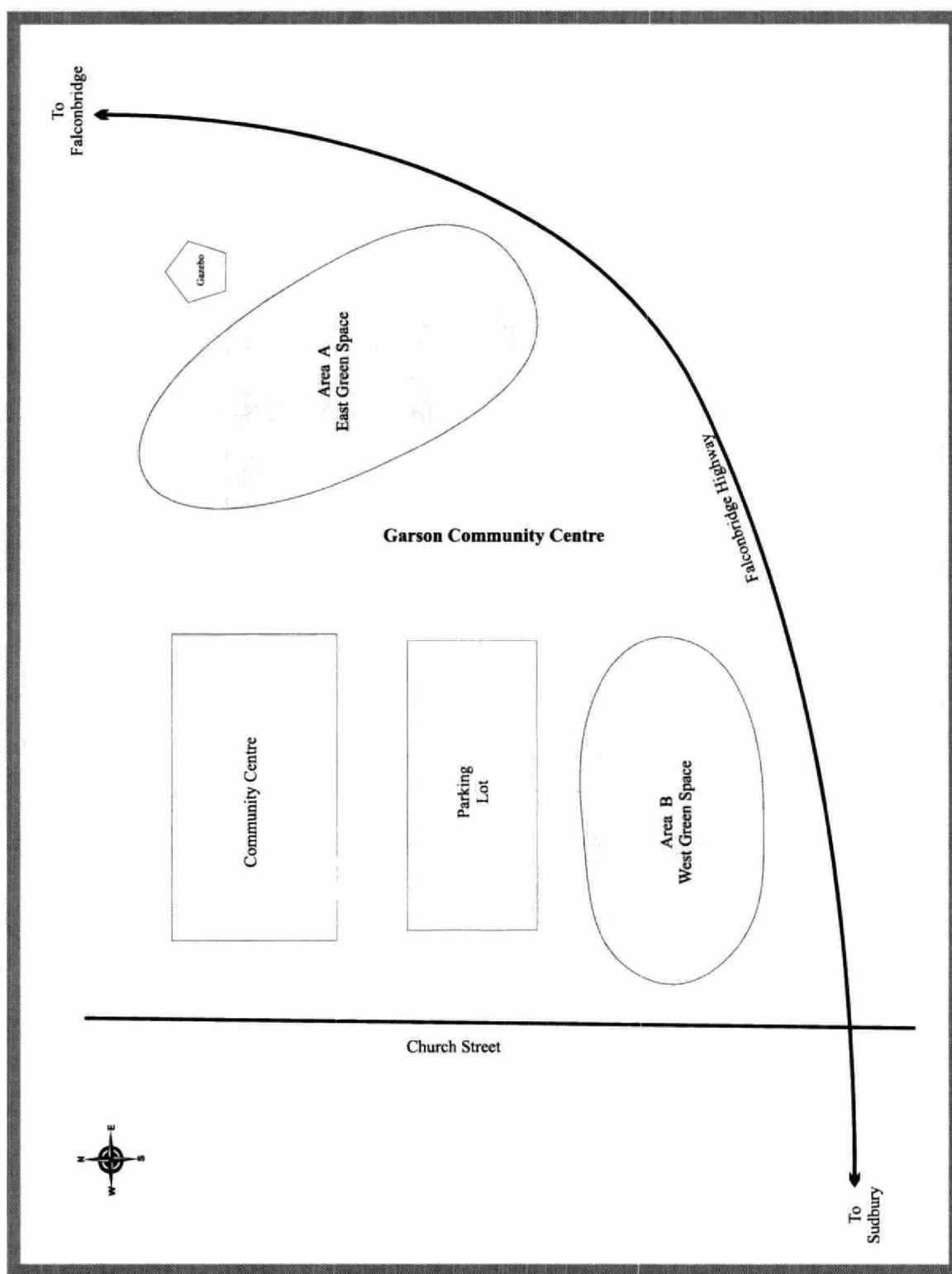
5.10 Garson Park Maps



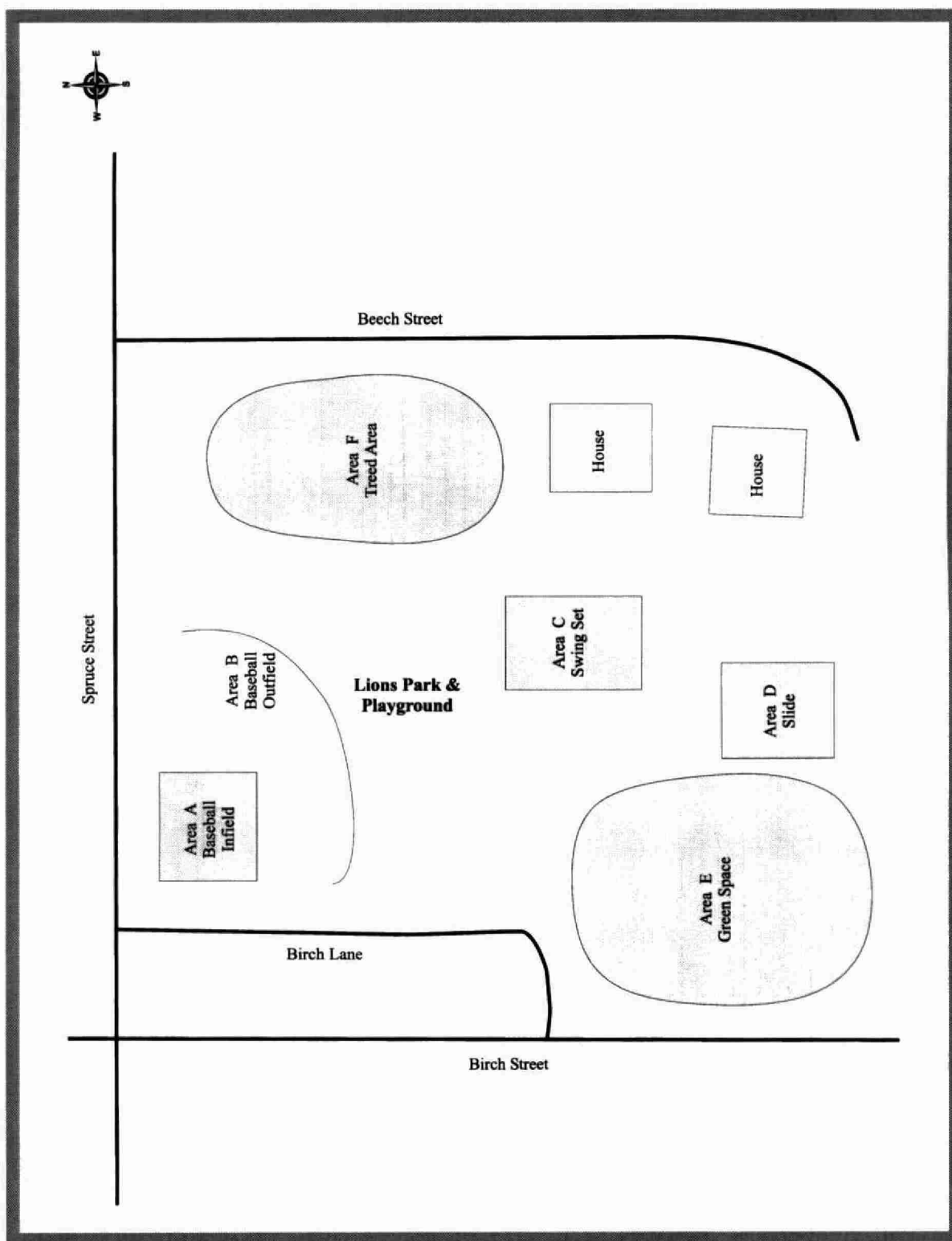
Map C5.10.1: Cedar Green Playground, Garson - 2001.



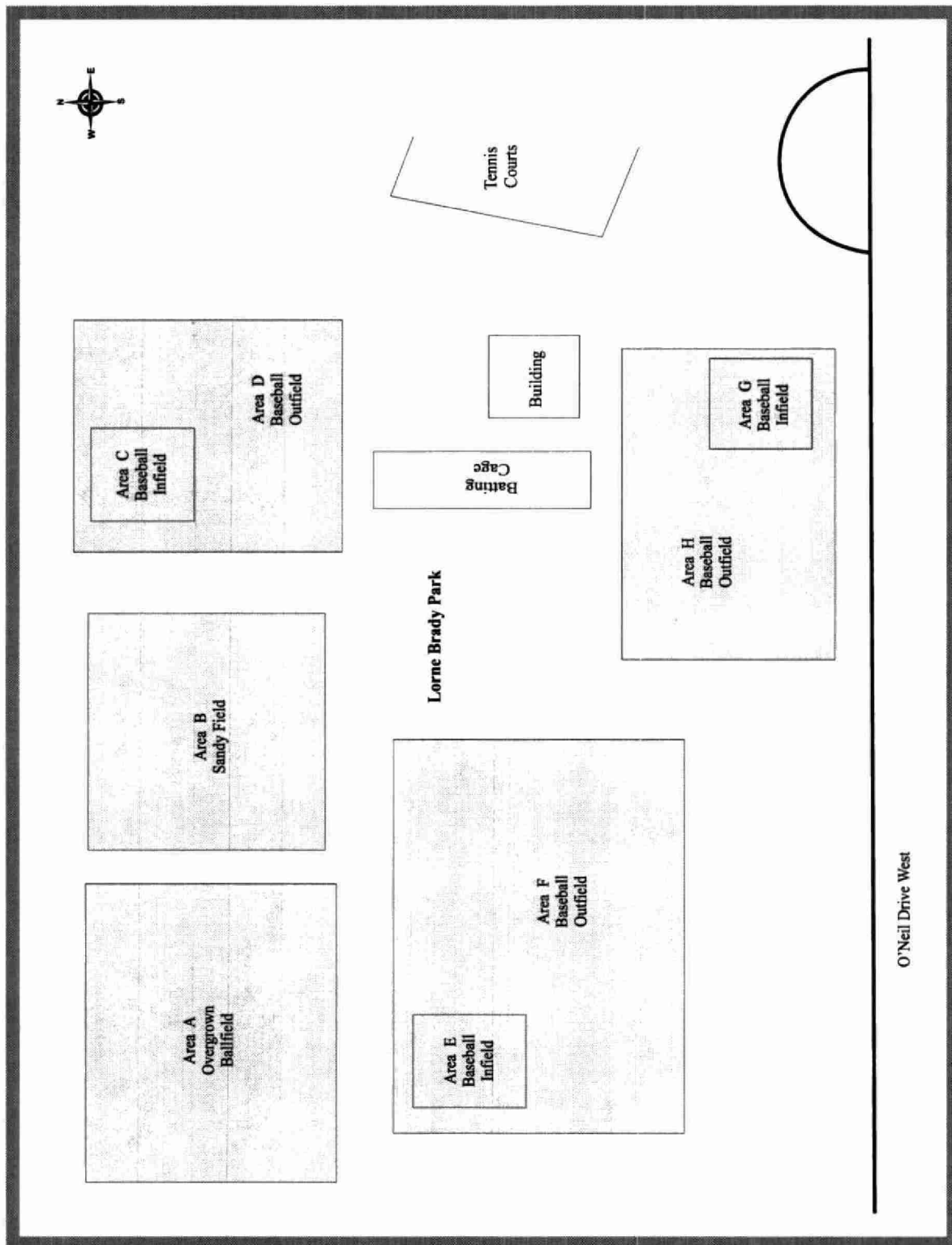
Map C5.10.2: Cedar Playground, Garson - 2001.



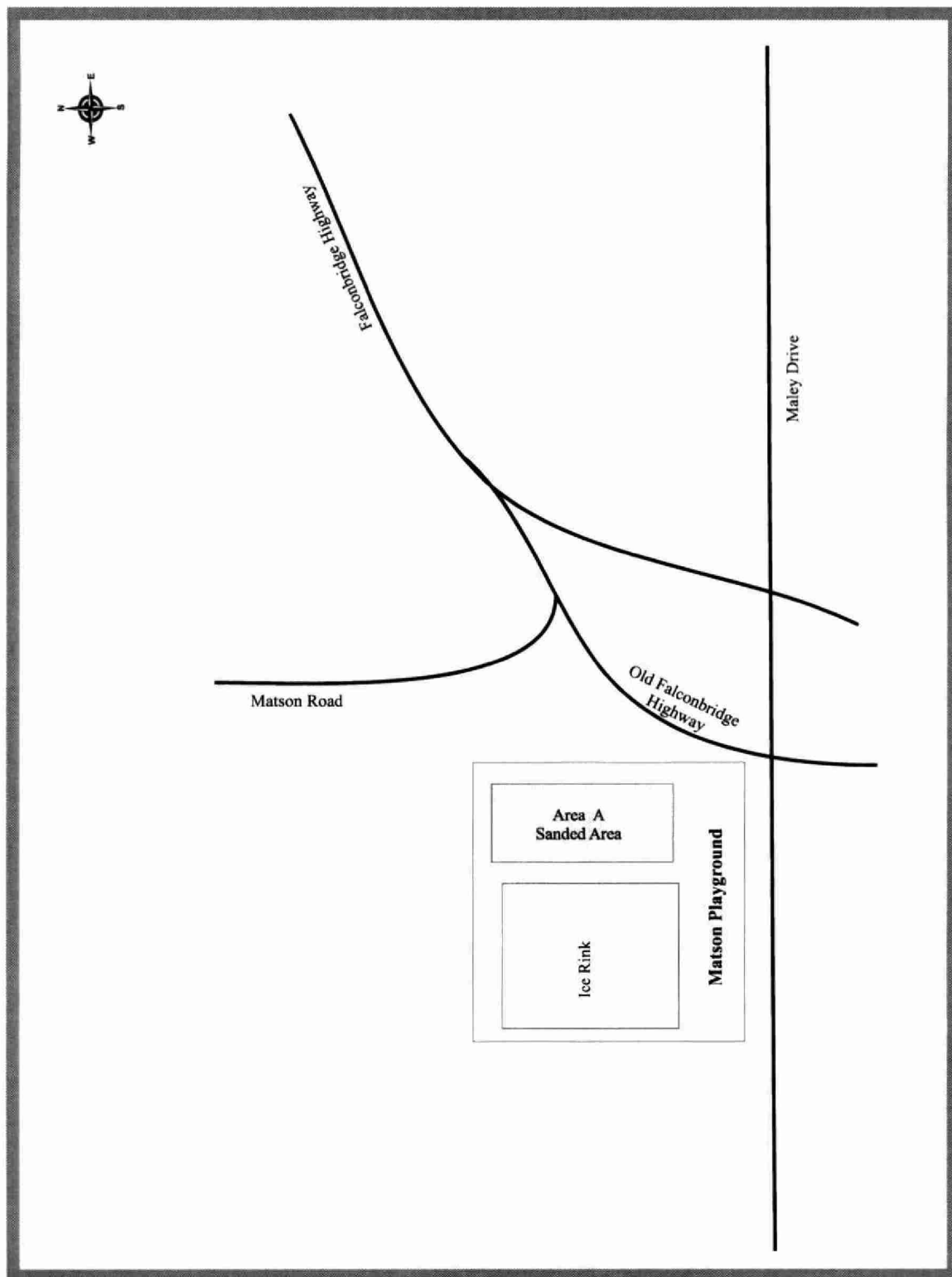
Map C5.10.3: Garson Community Centre, Garson - 2001.

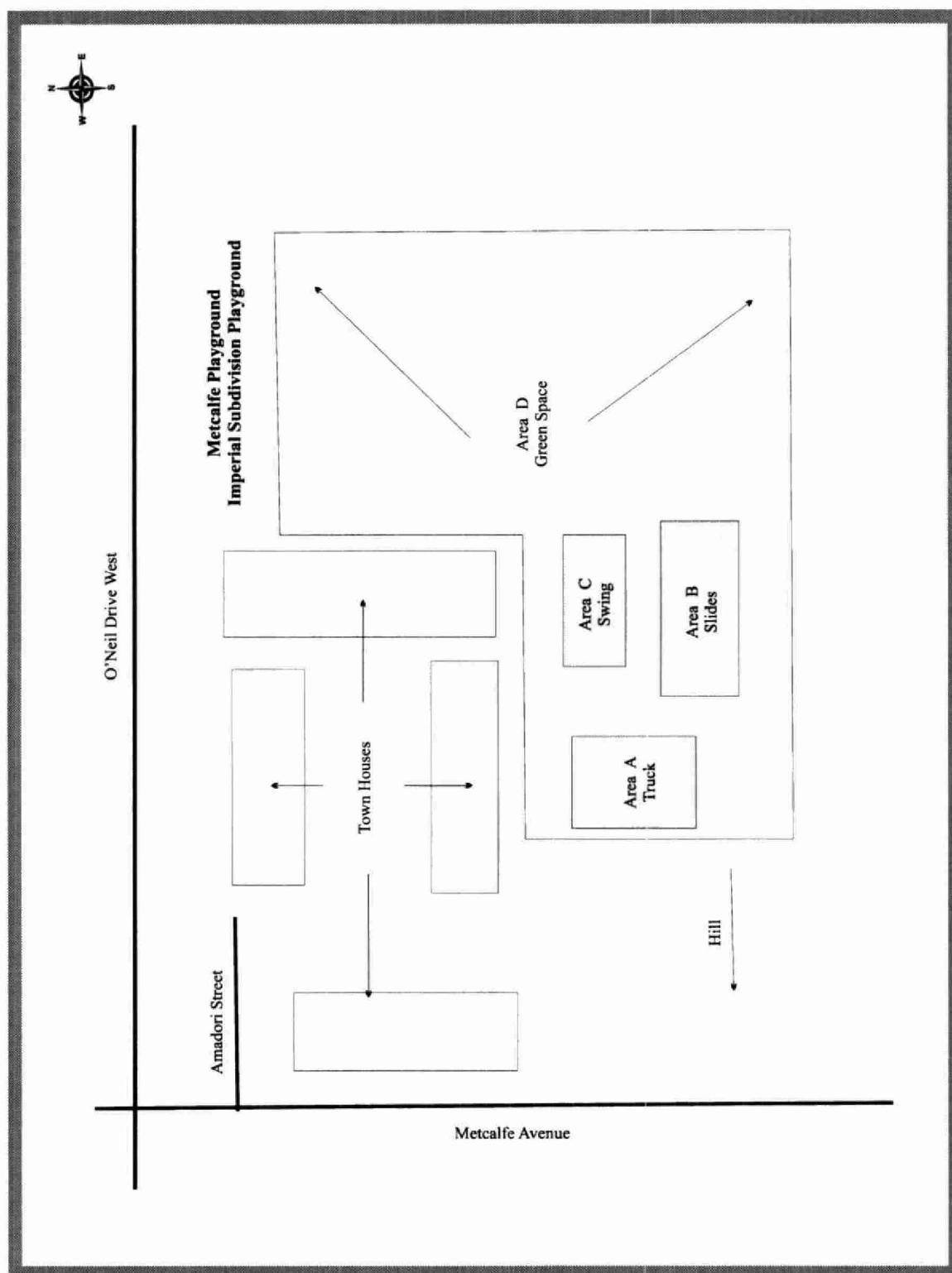


Map C5.10.4: Lion's Park & Playground, Garson - 2001.

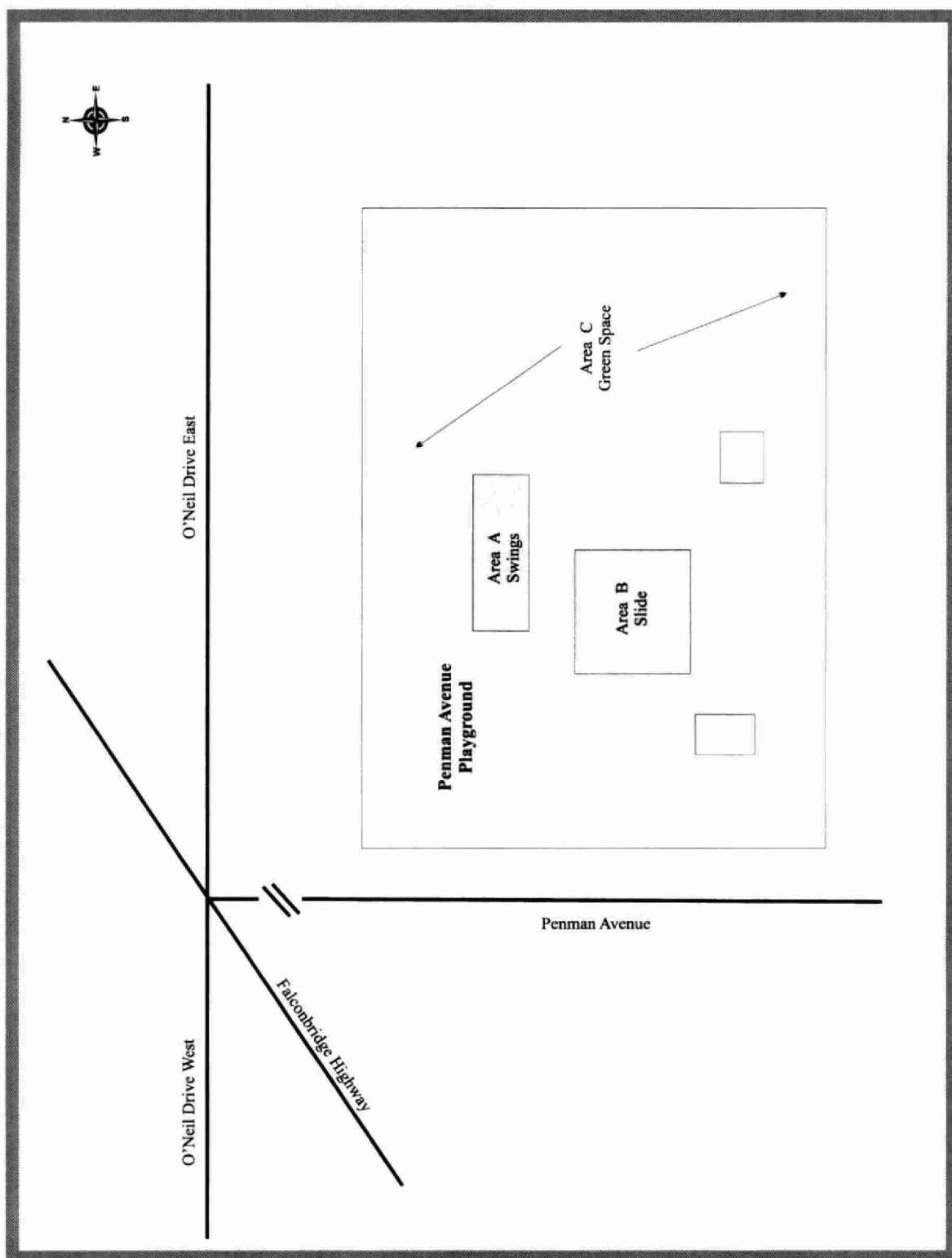


Map C5.10.5: Lorne Brady Park, Garson - 2001.

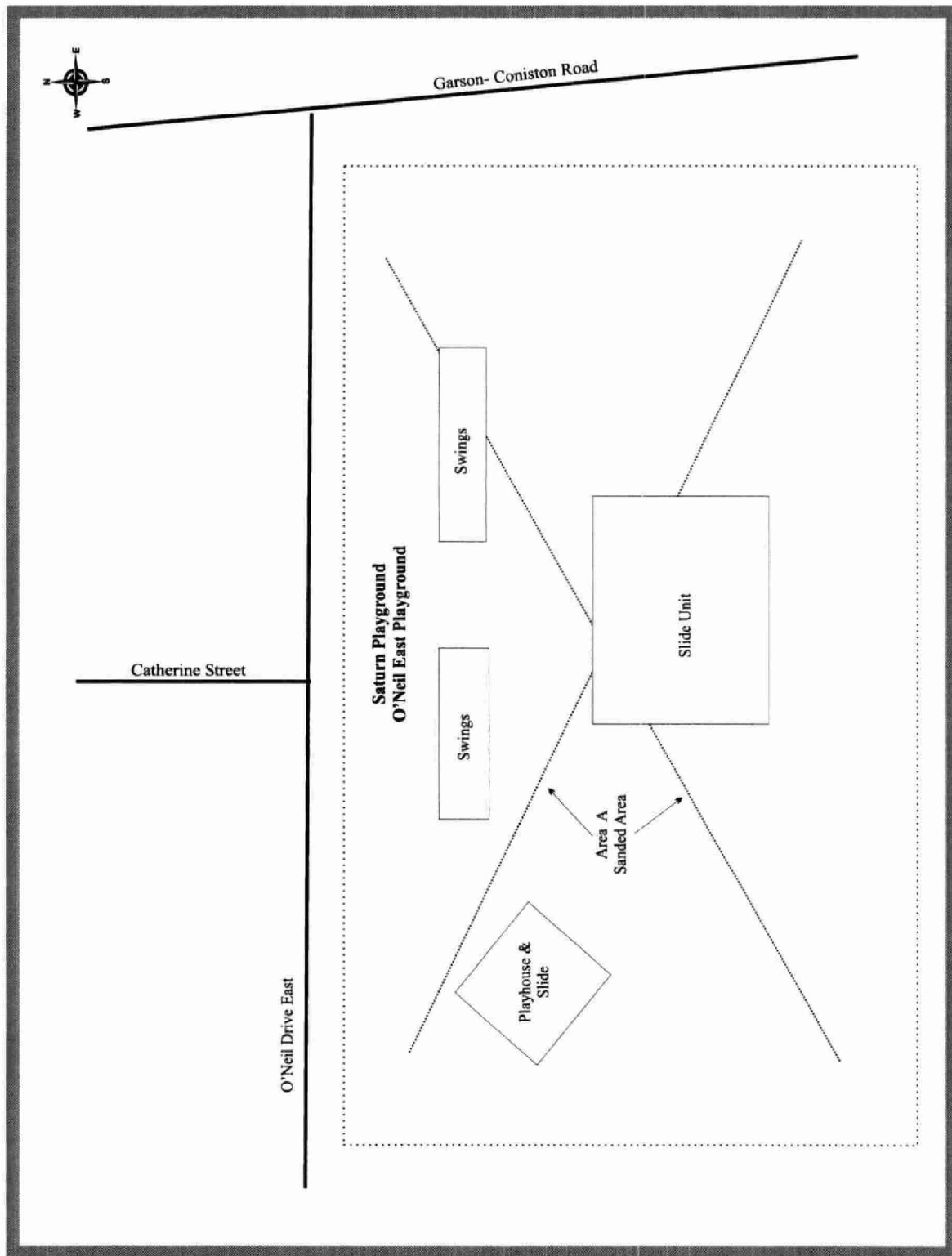




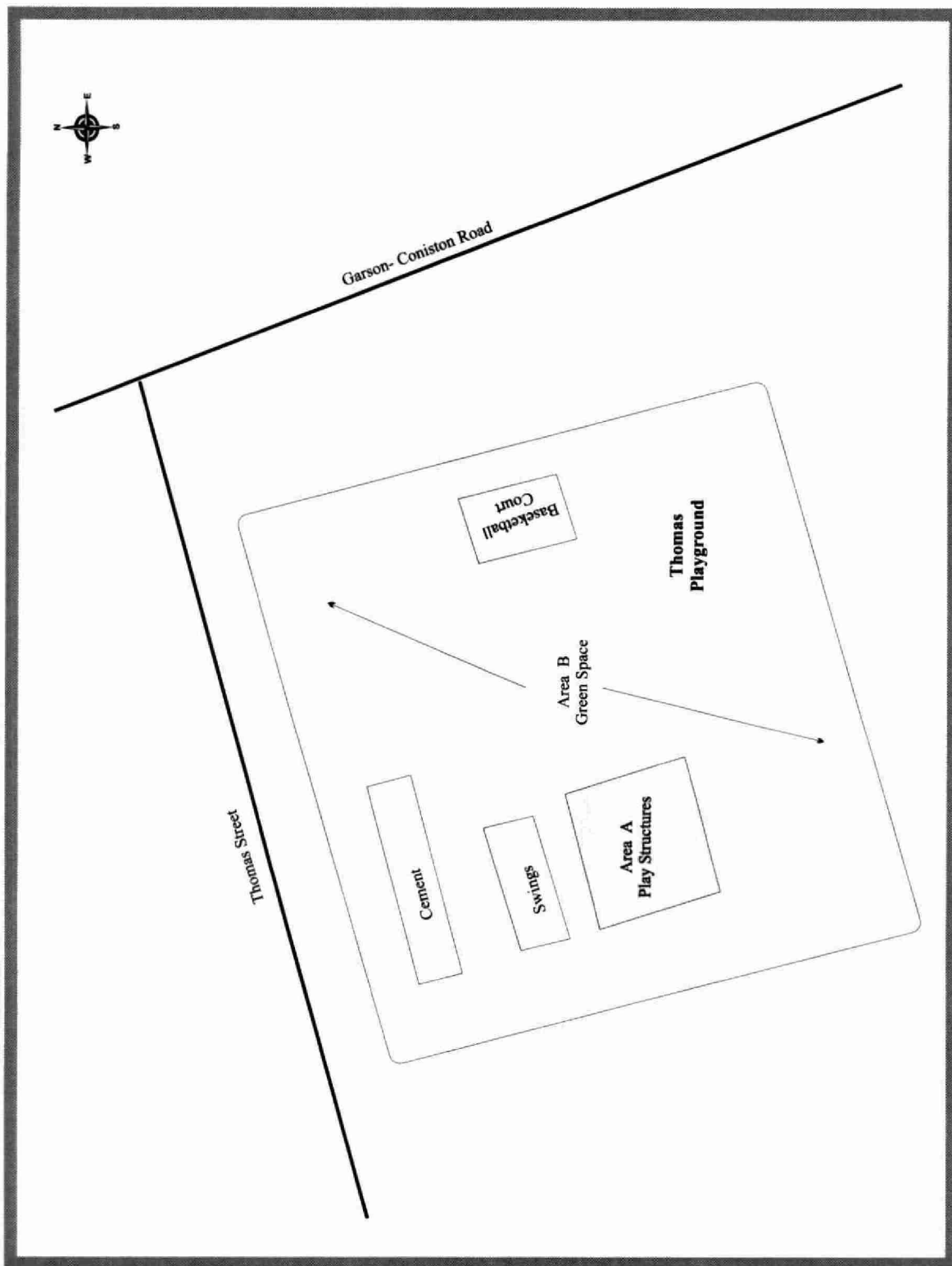
Map C5.10.7: Metcalfe Playground (Imperial Subdivision Playground), Garson - 2001.



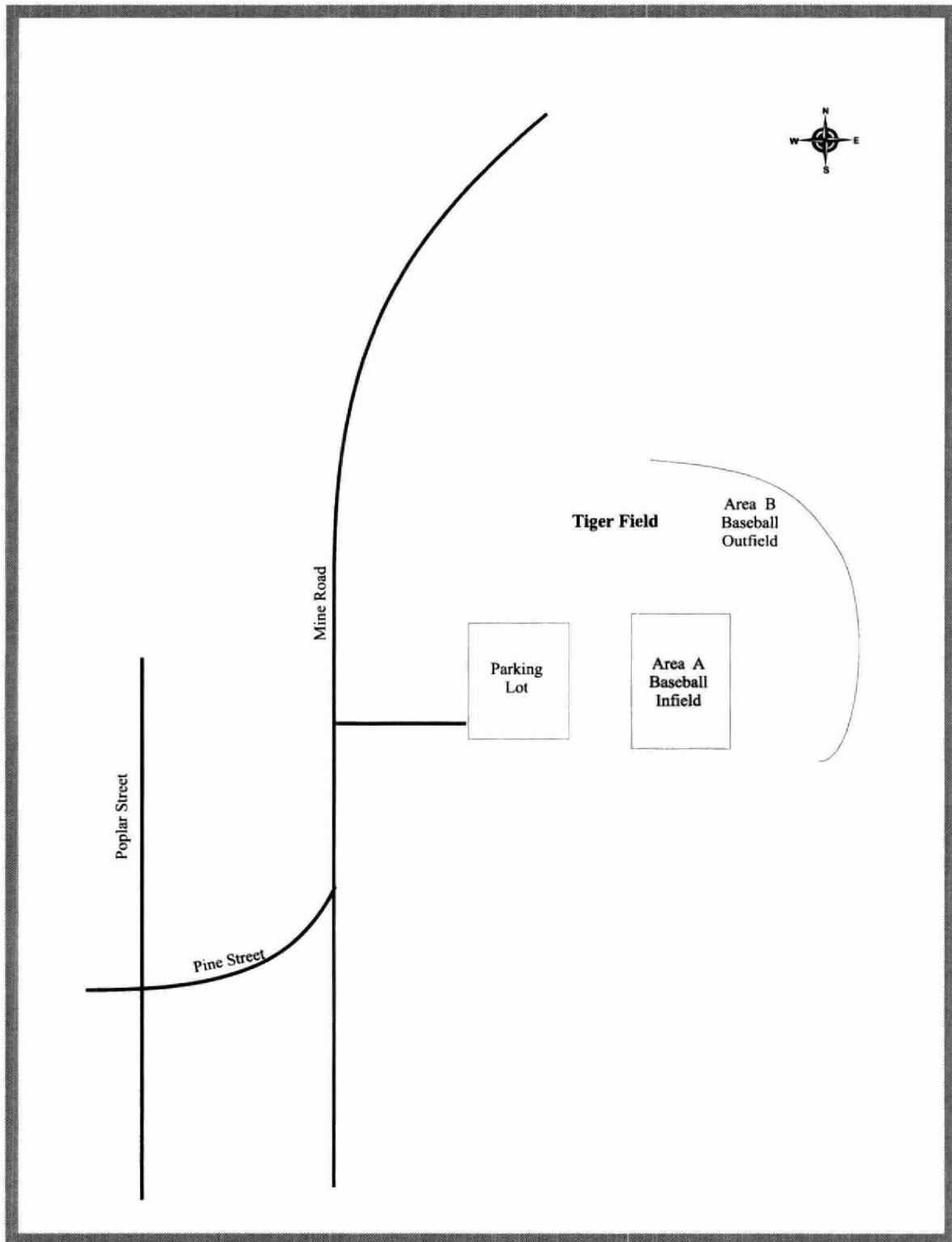
Map C5.10.8: Penman Avenue Playground, Garson - 2001.



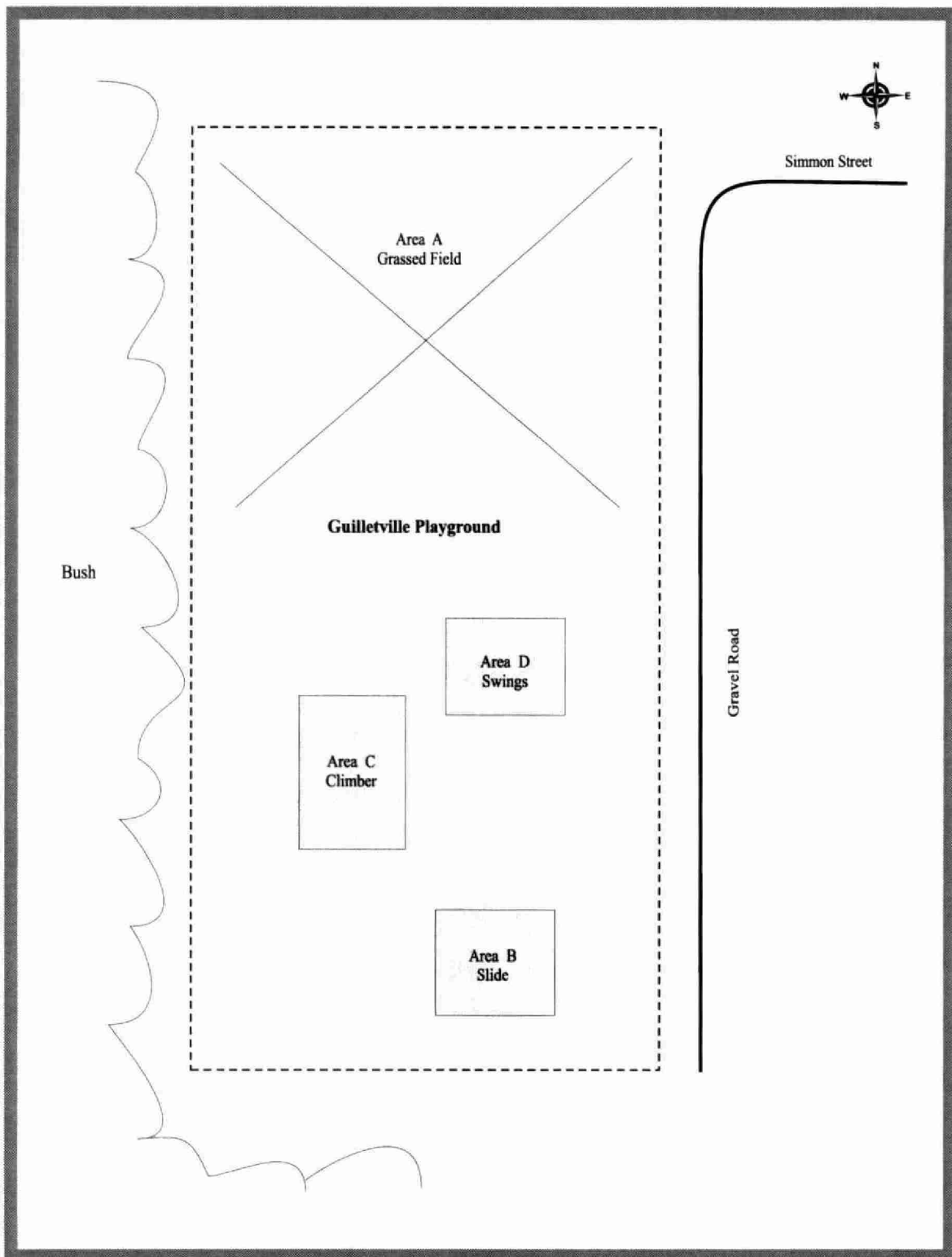
Map C5.10.9: Saturn Playground, Garson - 2001.

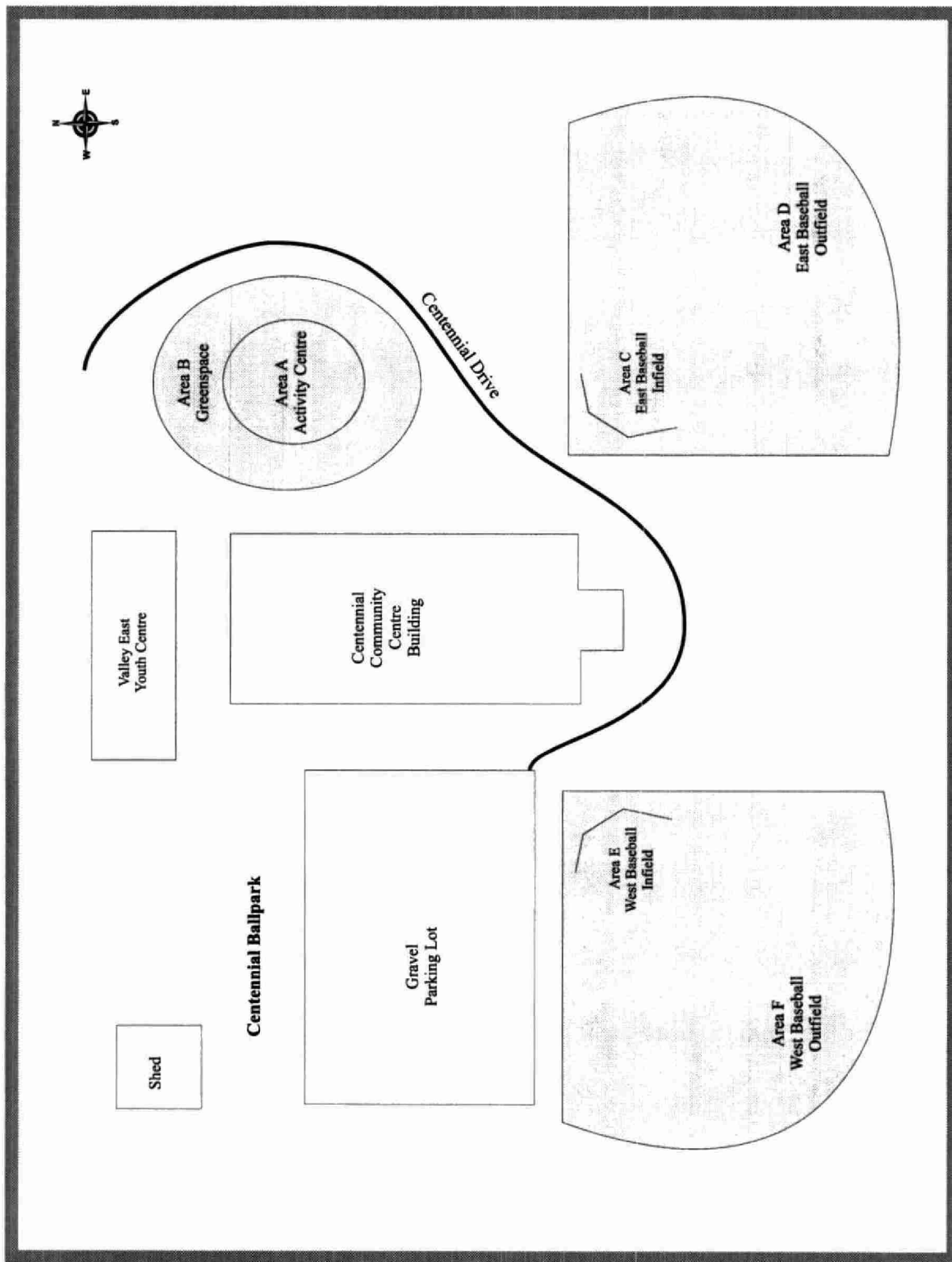


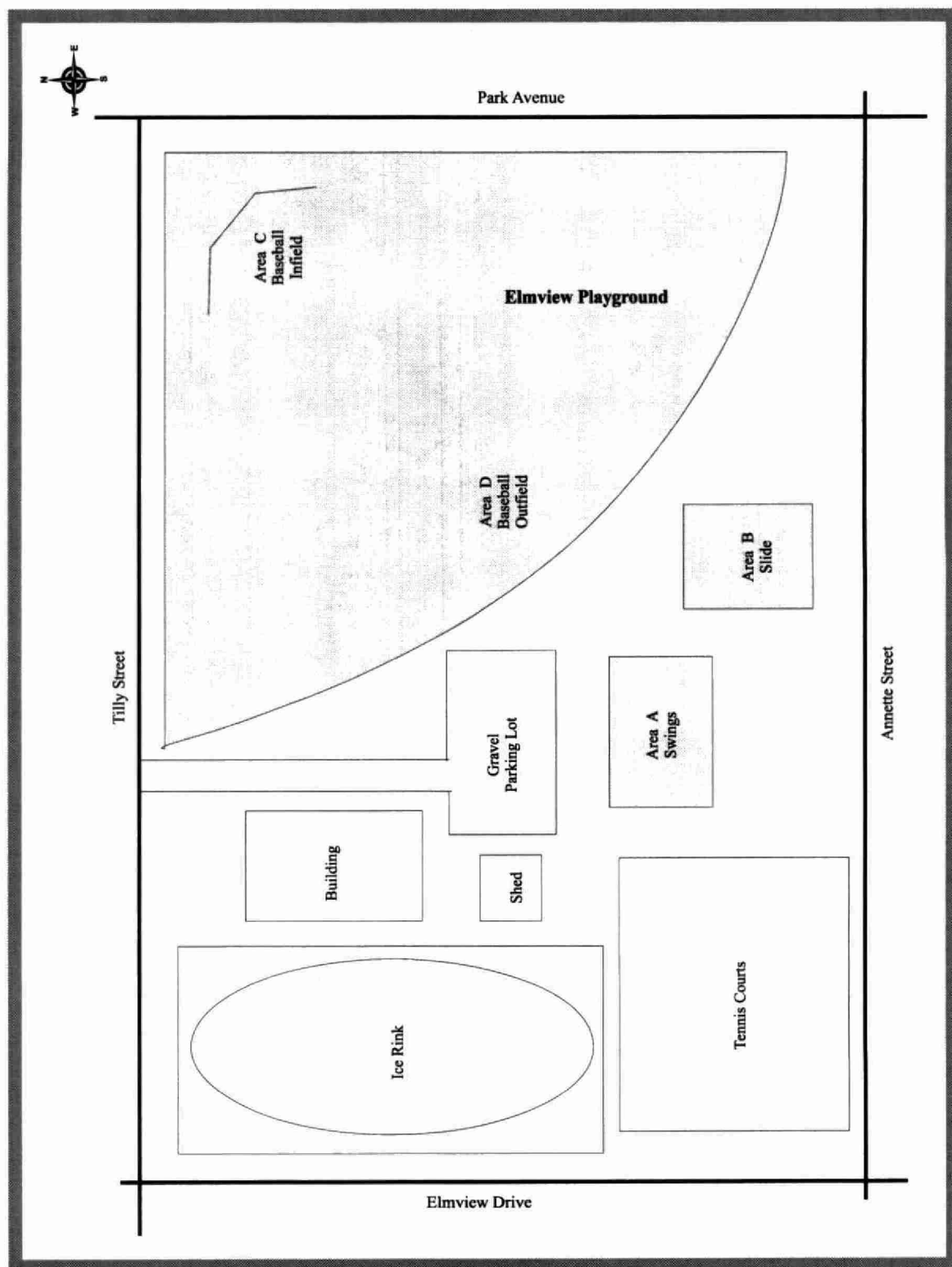
Map C5.10.10: Thomas Street Playground Tot Lot, Garson - 2001.



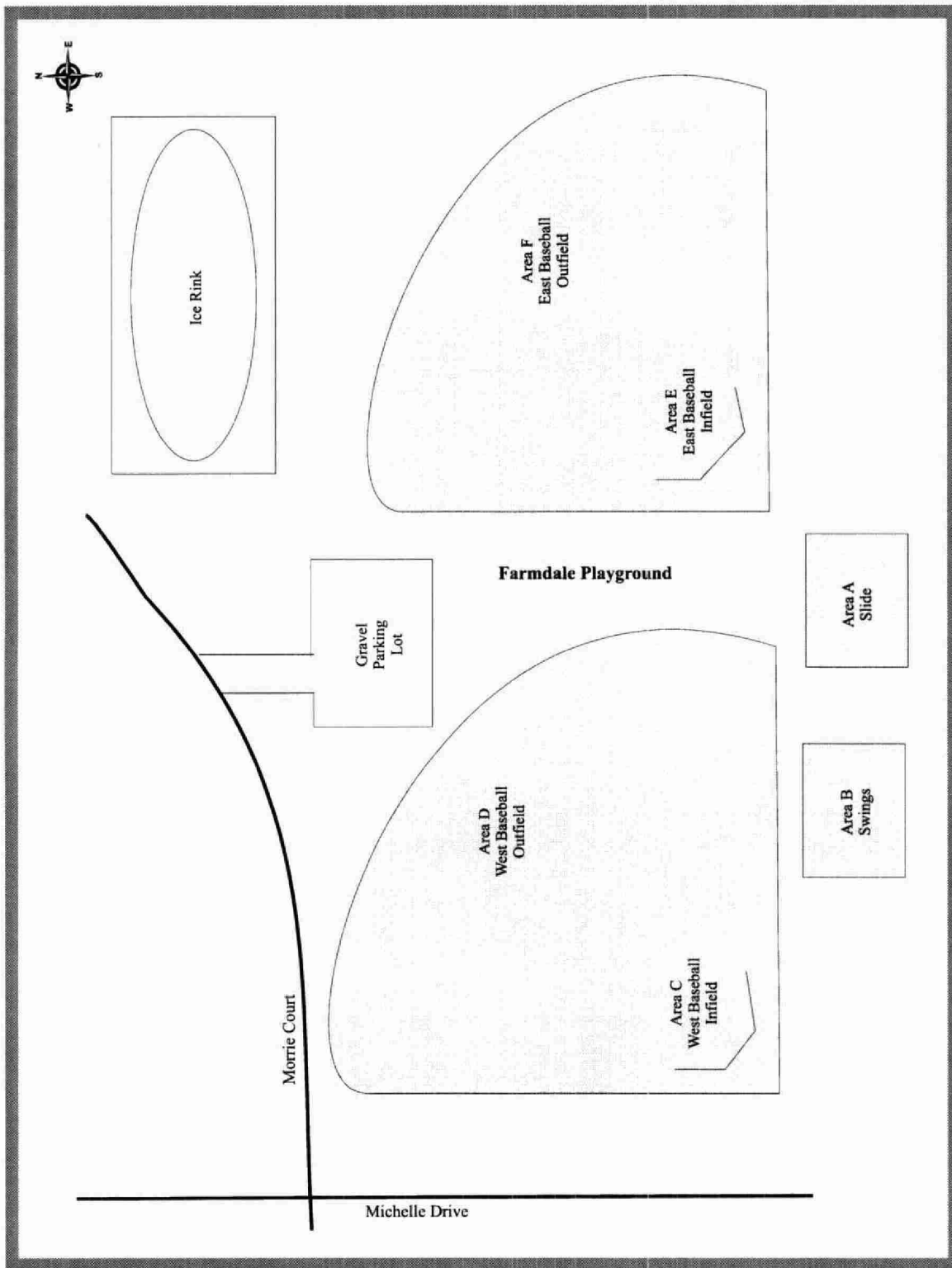
Map C5.10.11: Tiger Field, Garson - 2001.

5.11 Guilletville Park Map**Map C5.11.1:** Guilletville Playground, Guilletville - 2001.

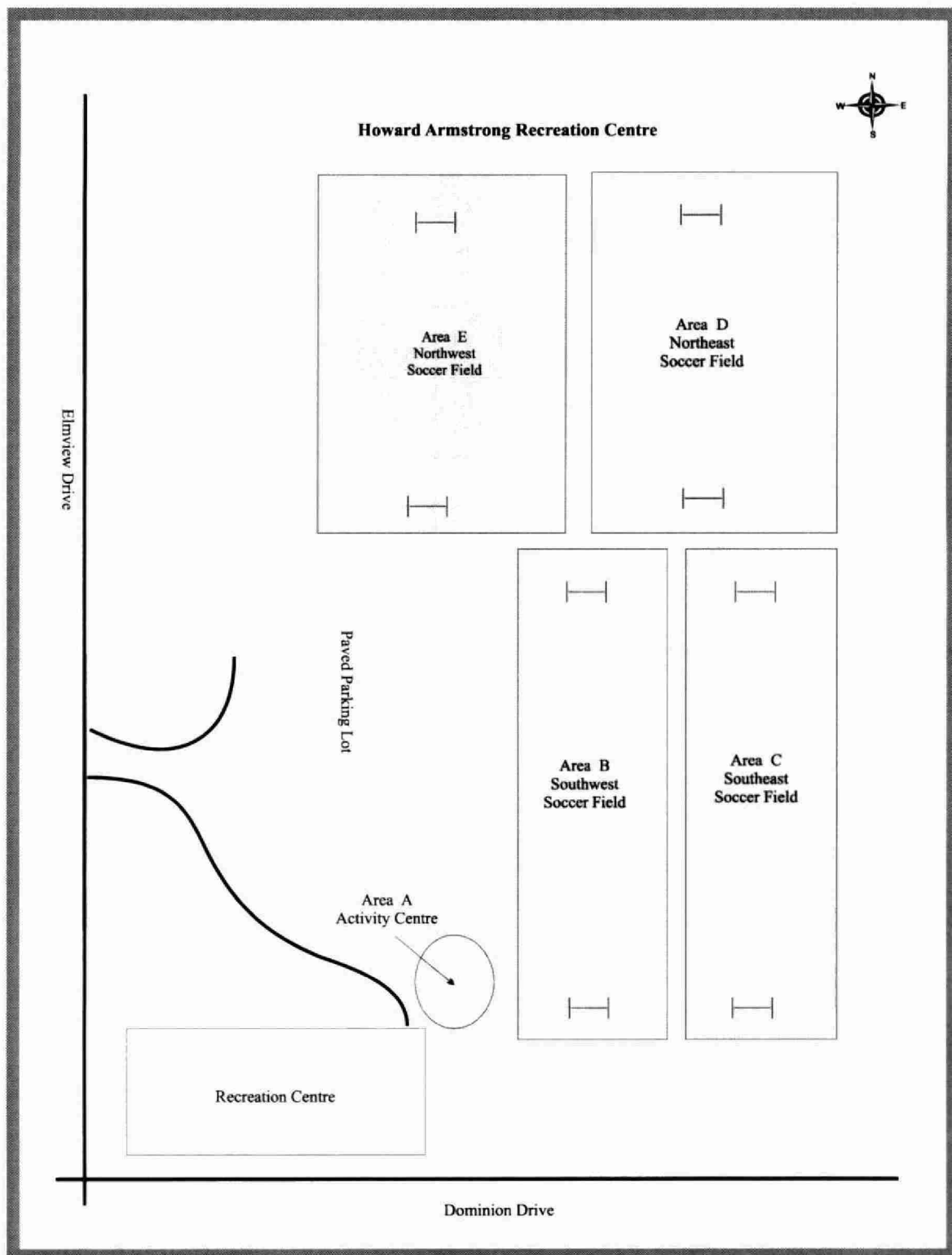
5.12 Hanmer Park Maps**Map C5.12.1: Centennial Ballpark, Hanmer - 2001.**



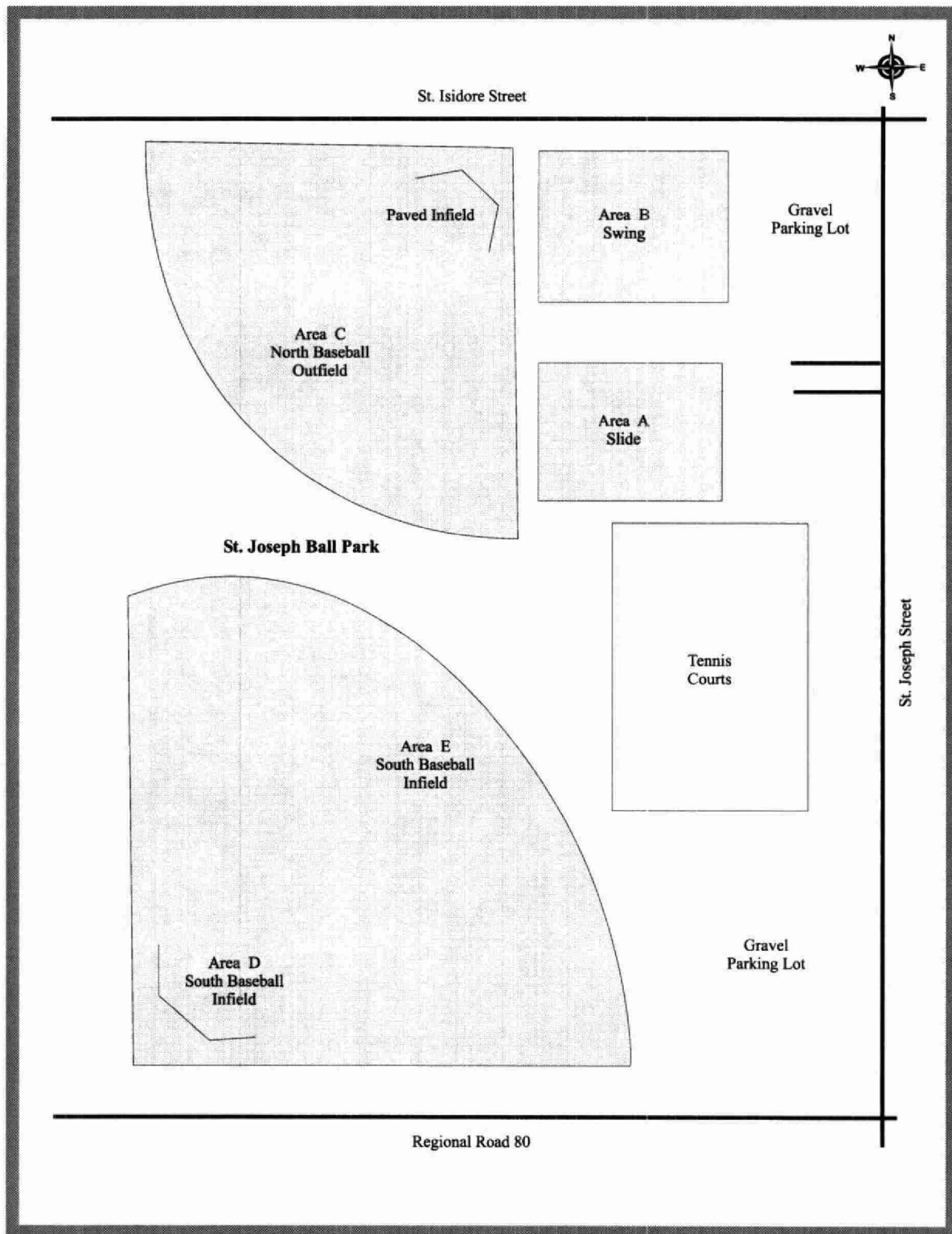
Map C5.12.2: Elmview Playground, Hanmer - 2001.



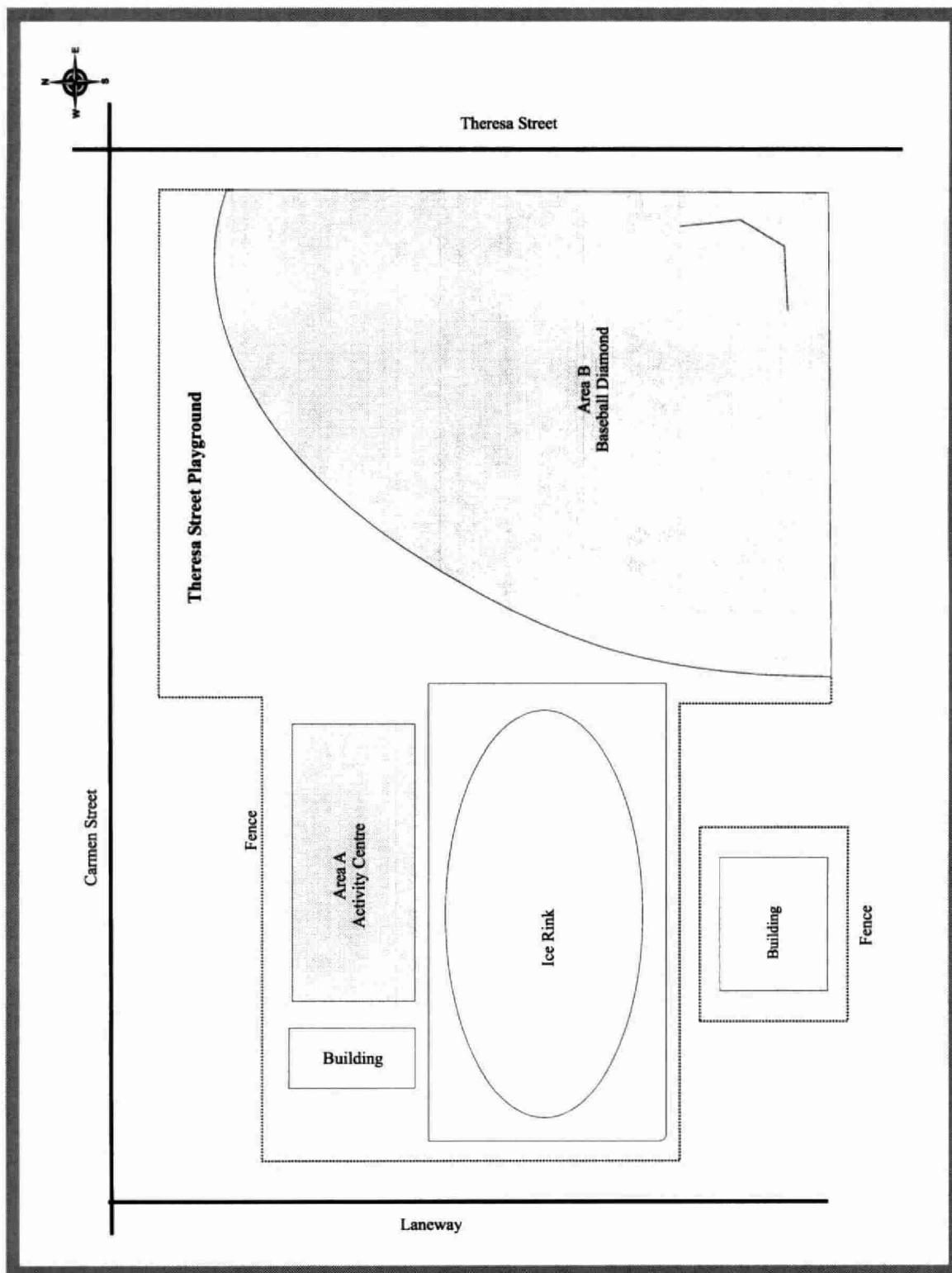
Map C5.12.3: Farmdale Playground, Hanmer - 2001.



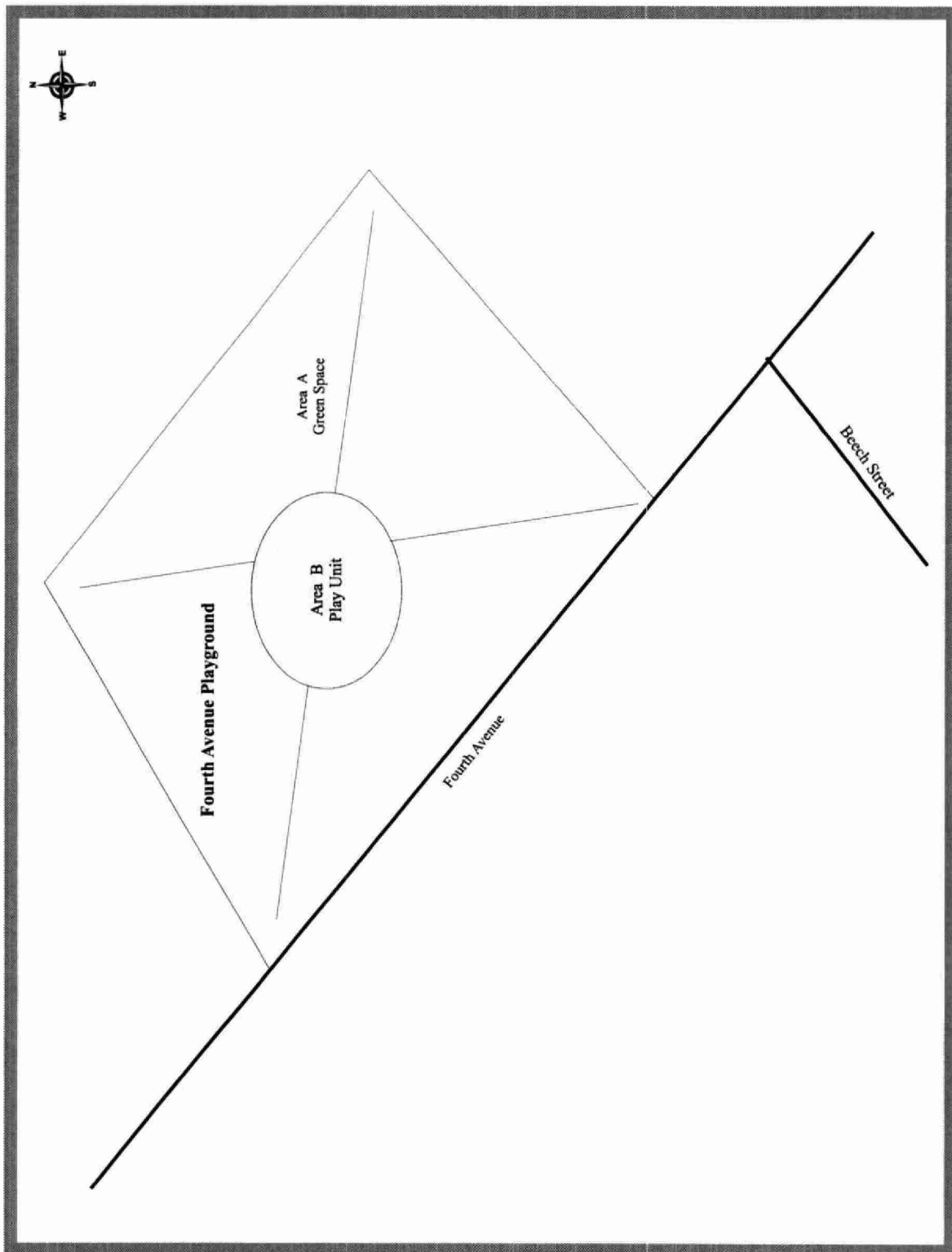
Map C5.12.4: Howard Armstrong Rec. Centre, Hanmer - 2001.

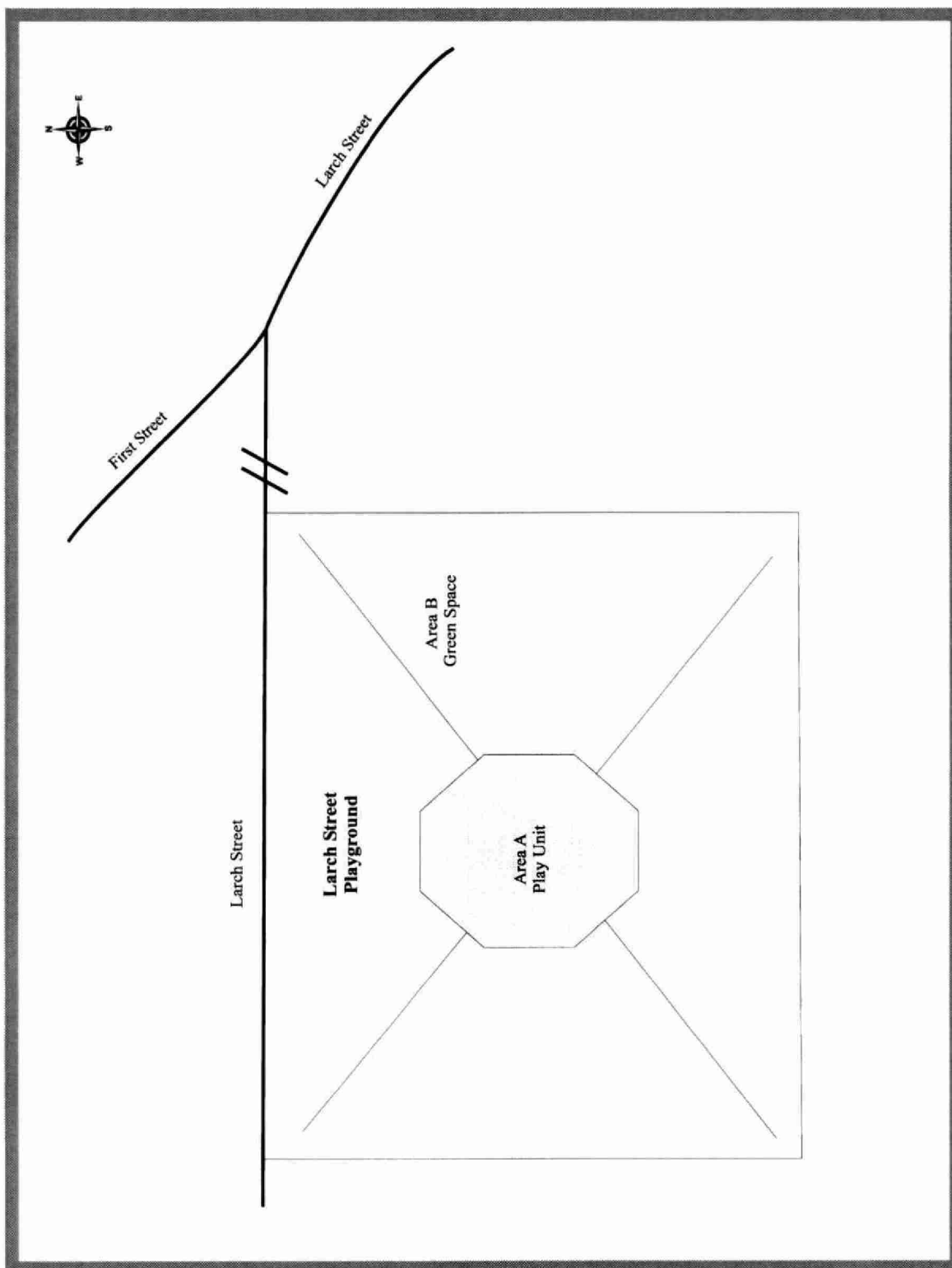


Map C5.12.5: St. Joseph Ball Park (Lion's Playground), Hanmer - 2001.

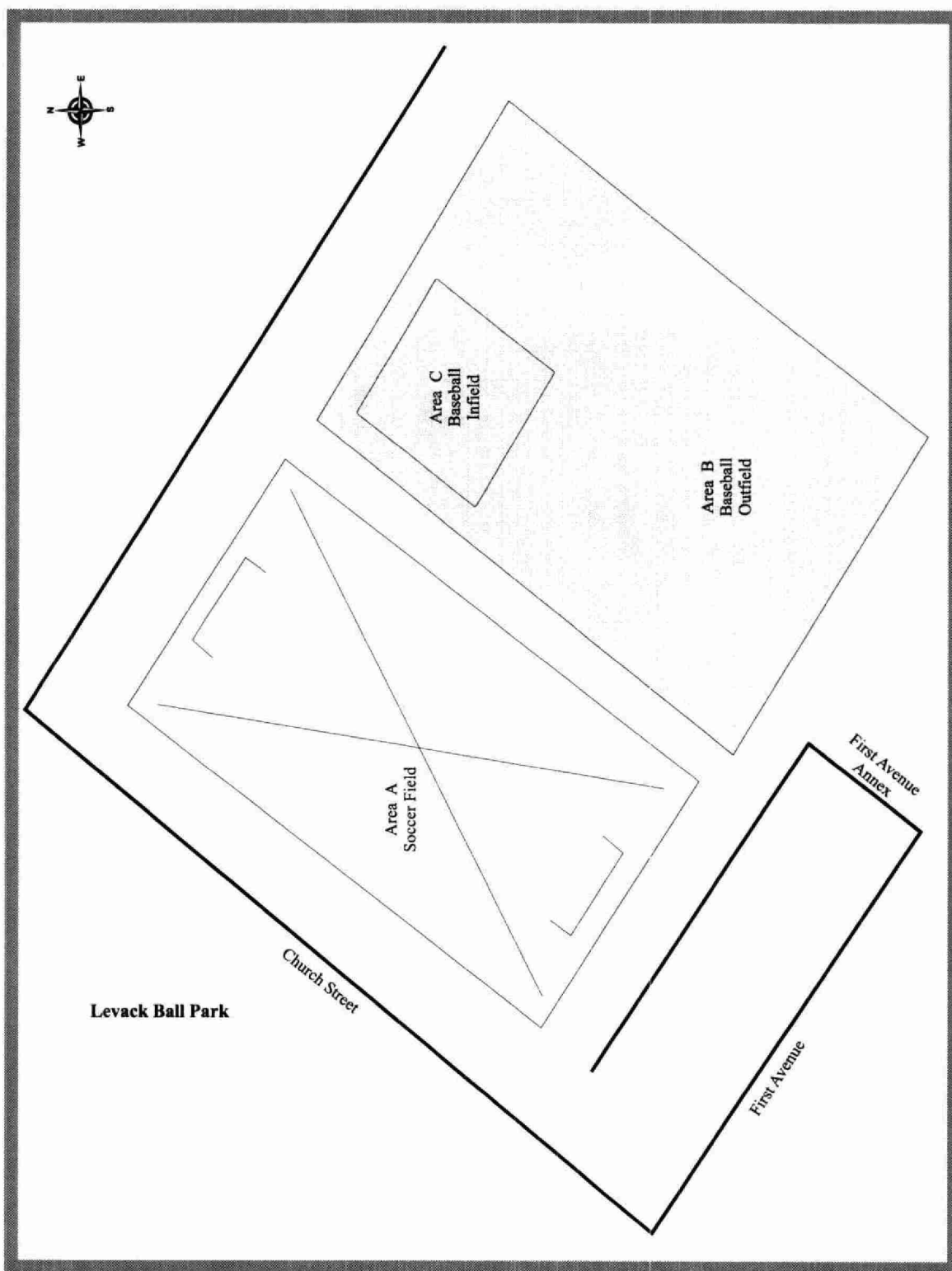


Map C5.12.6: Theresa Playground (Hanmer Playground), Hanmer - 2001.

5.13 Levack Park Maps**Map C5.13.1: 4th Avenue Playground, Levack - 2001.**

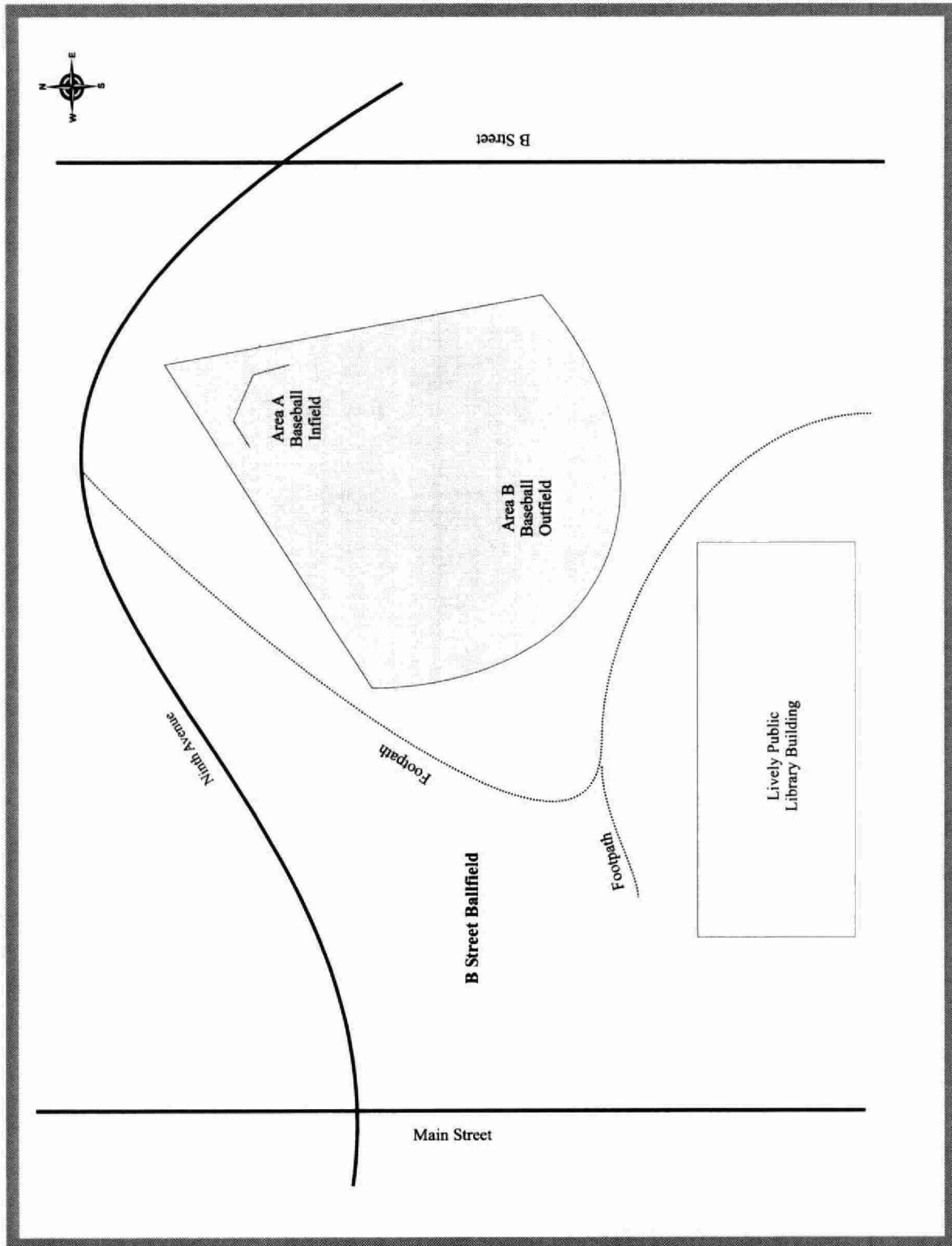


Map C5.13.2: Larch Street Playground, Levack - 2001.

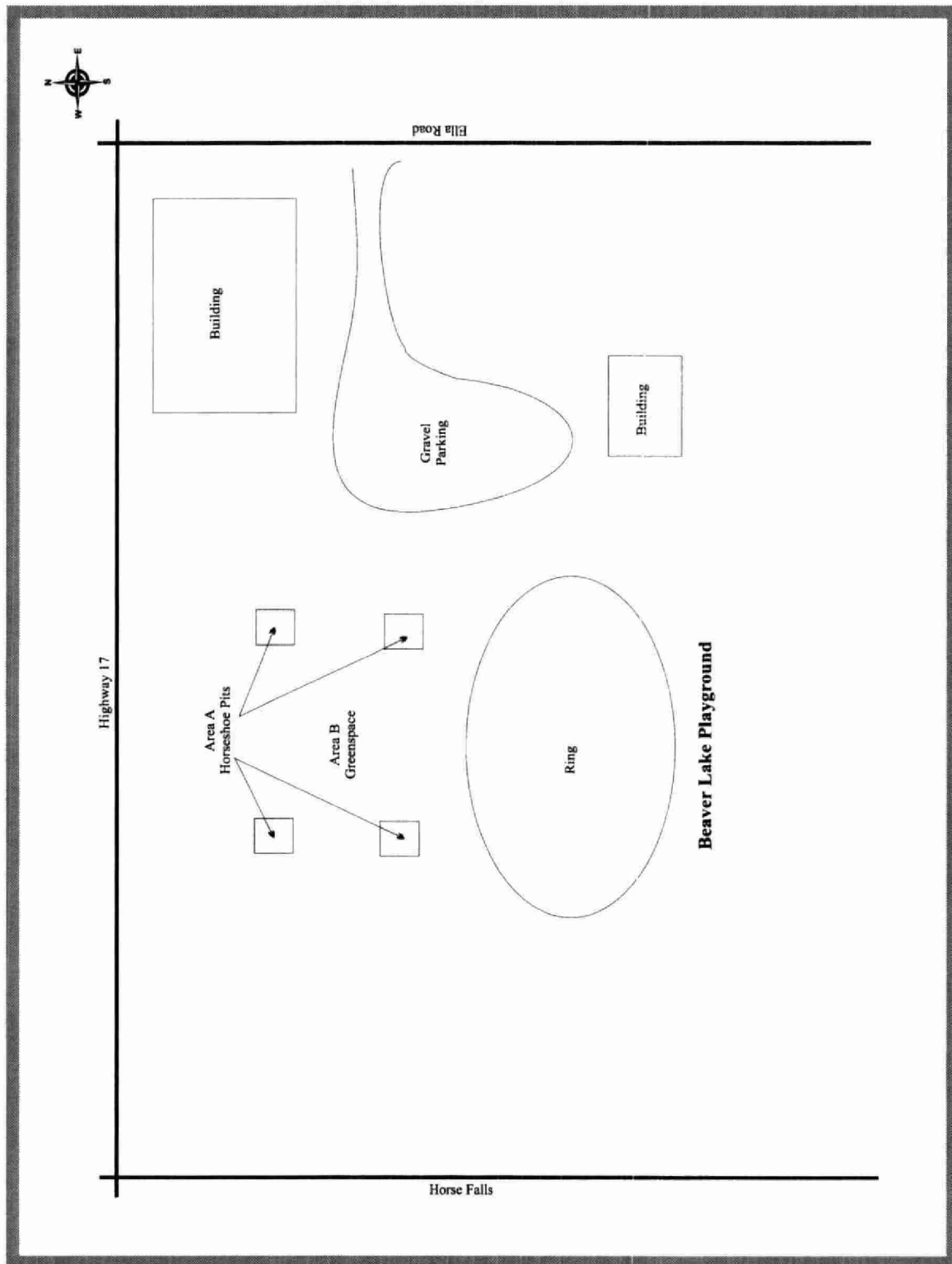


Map C5.13.3: Levack Ball Park, Levack - 2001.

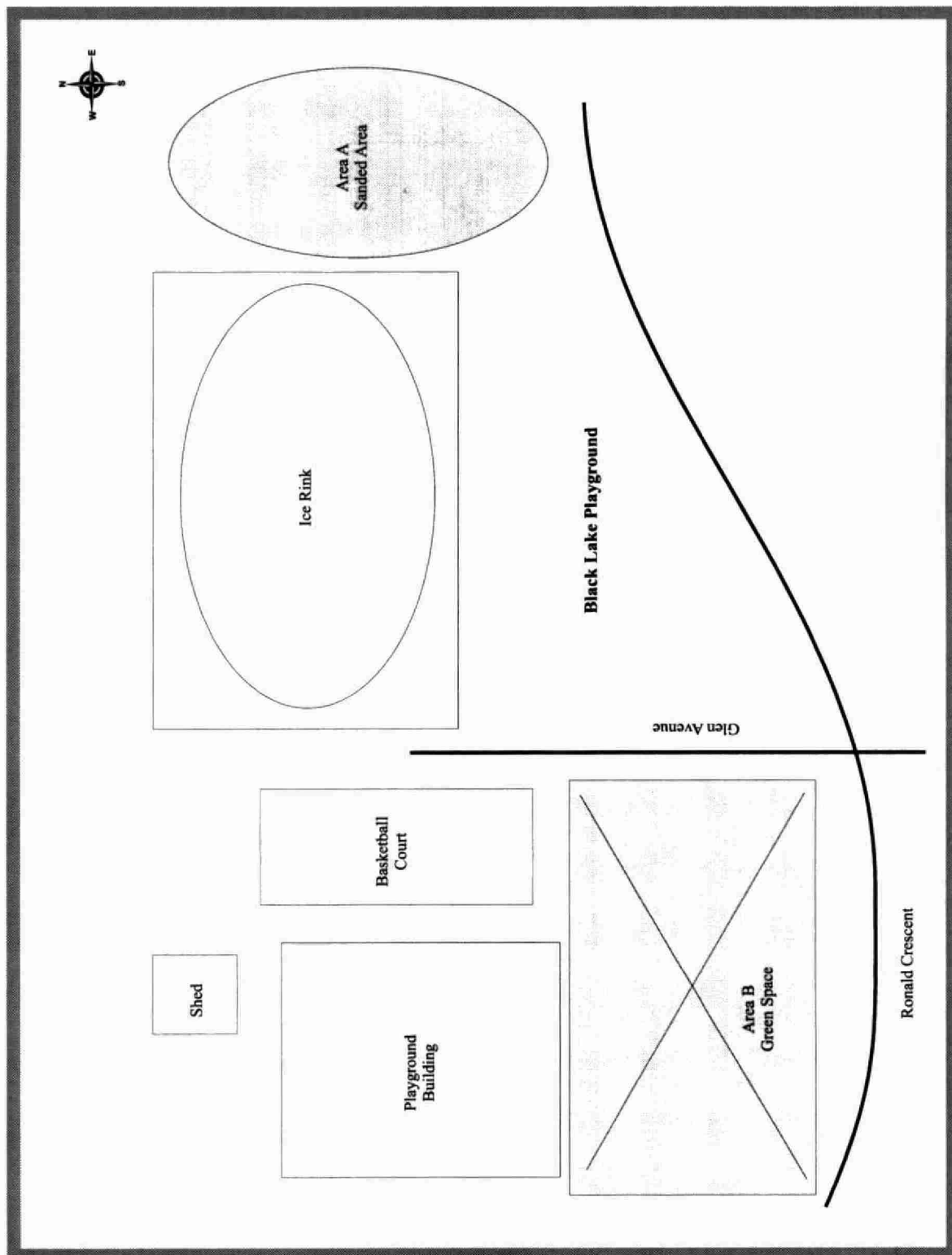
5.14 Lively Park Maps



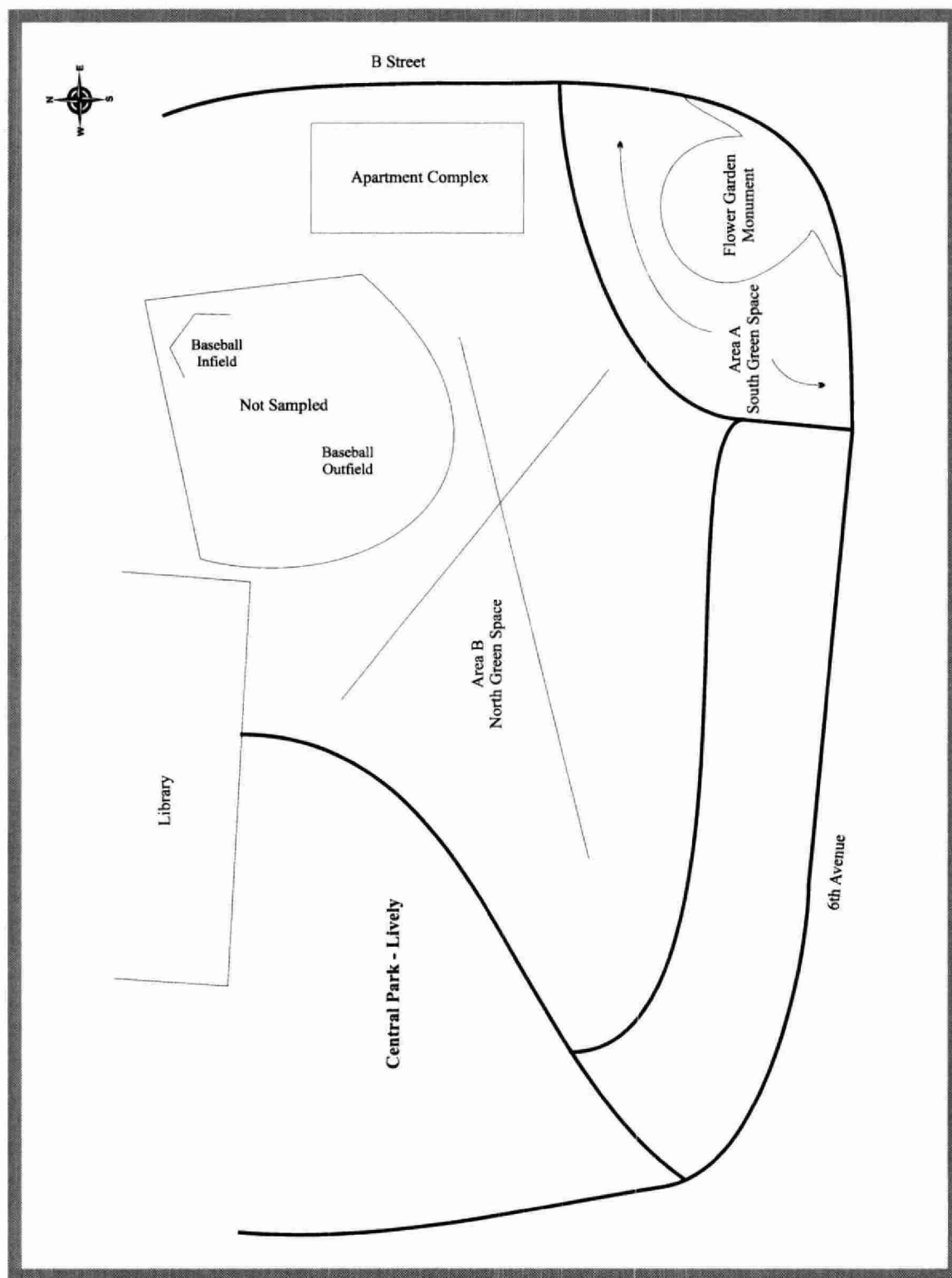
Map C5.14.1: B Street Ballfield (George Vanier), Lively - 2001.



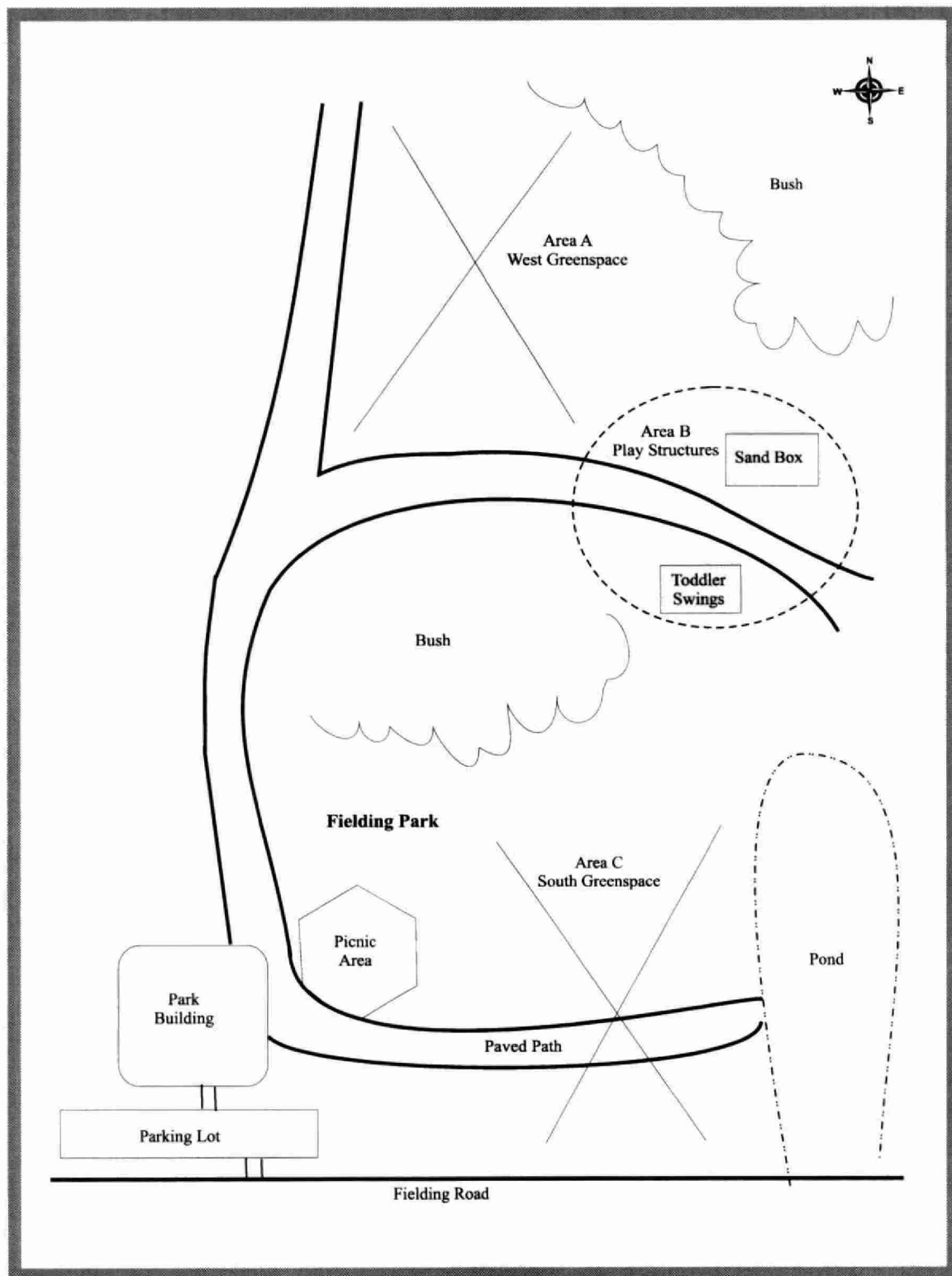
Map C5.14.2: Beaver Lake Playground, Lively - 2001.



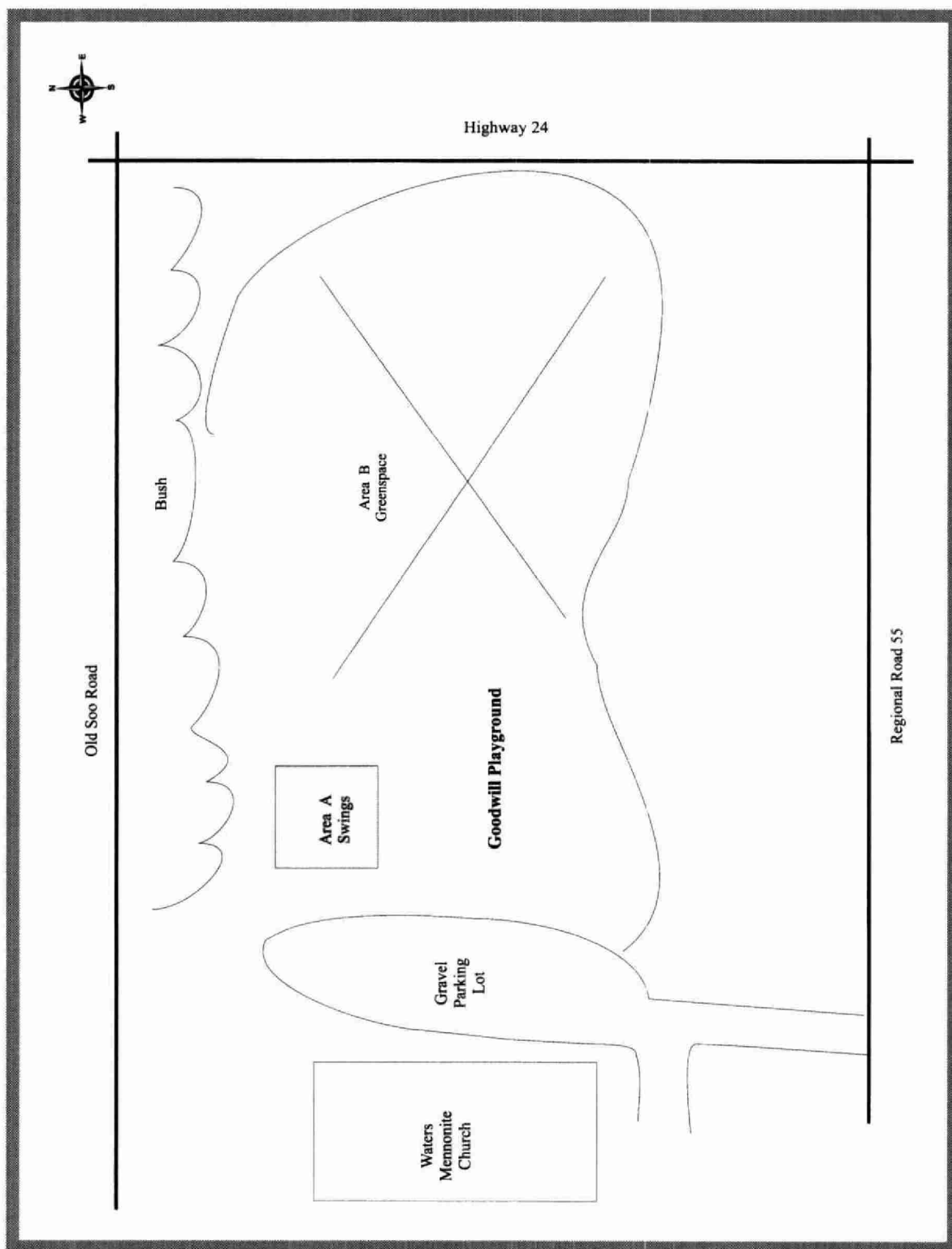
Map C5.14.3: Black Lake Road Playground, Lively - 2001.



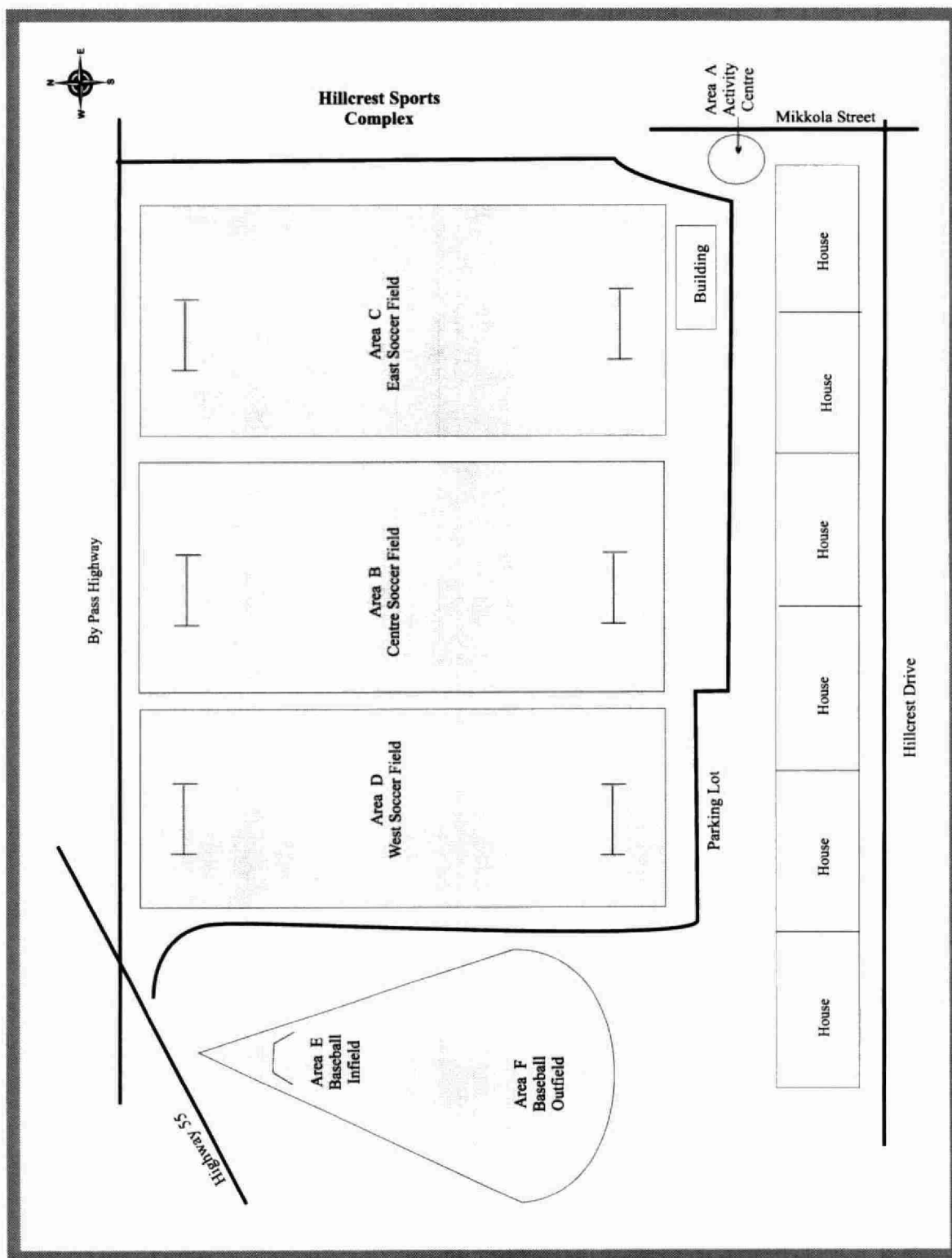
Map C5.14.4: Central Park, Lively - 2001.



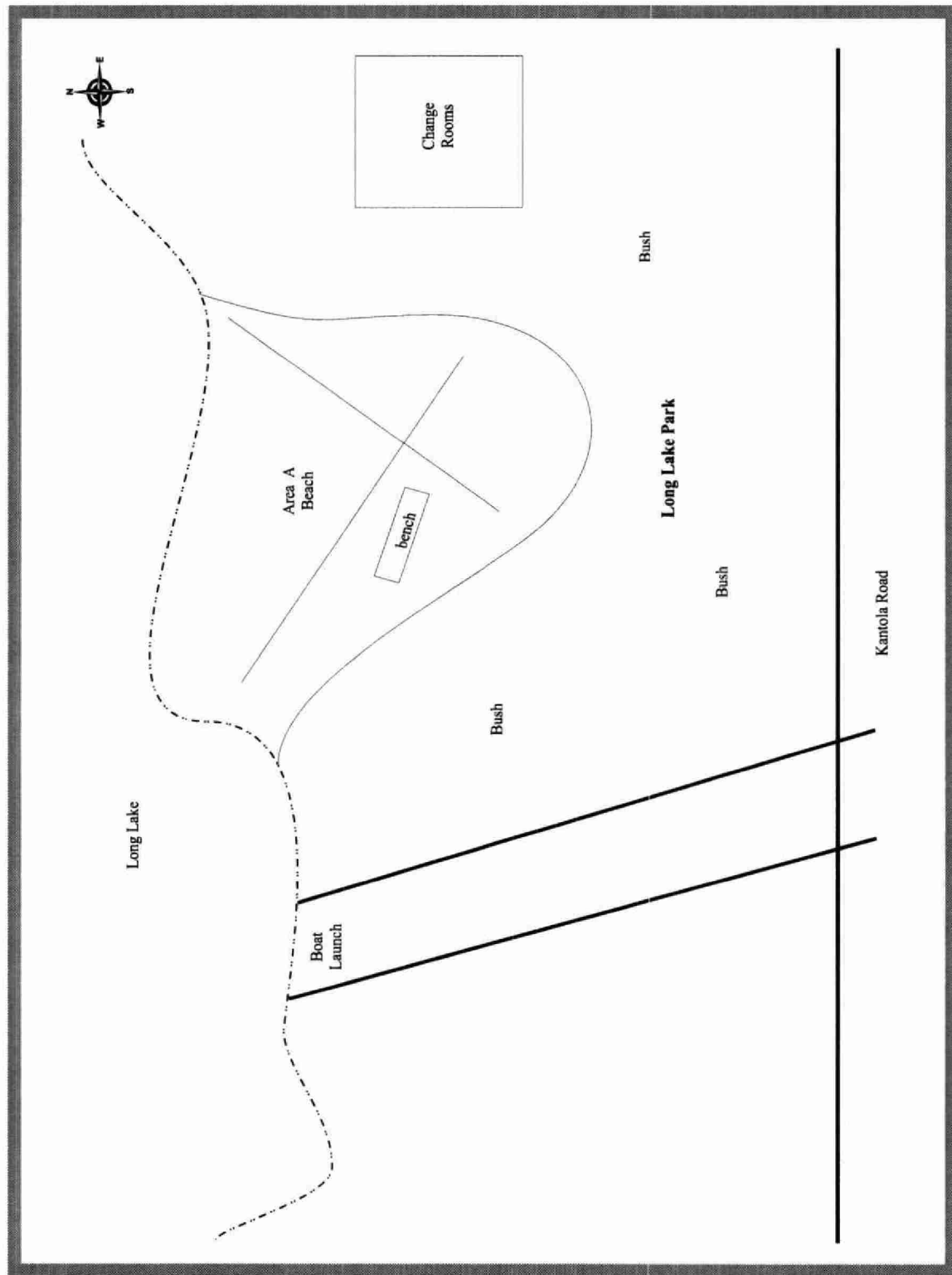
Map C5.14.5: Fielding Memorial Park Complex, Lively - 2001.

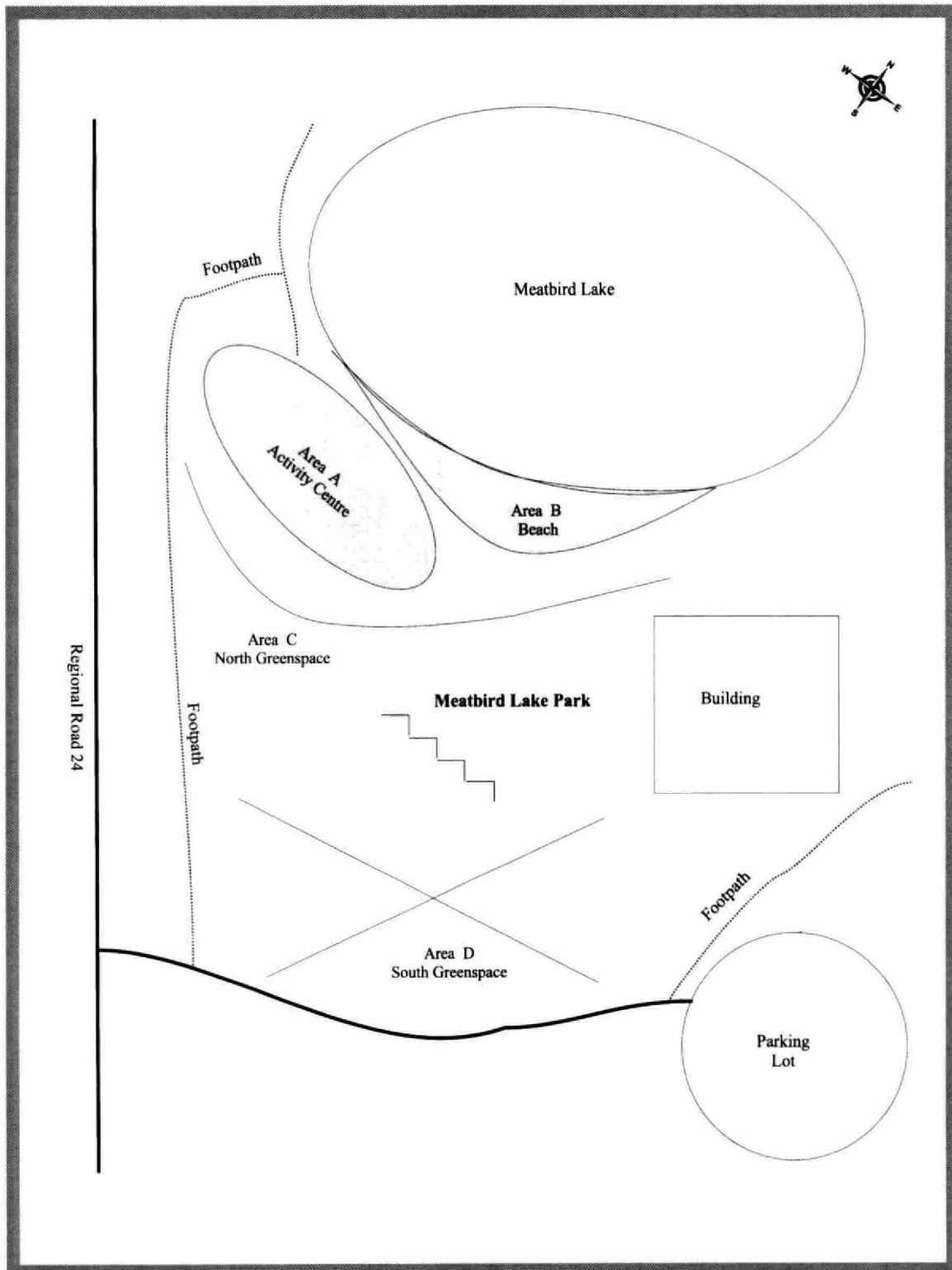


Map C5.14.6: Goodwill Playground, Lively - 2001.

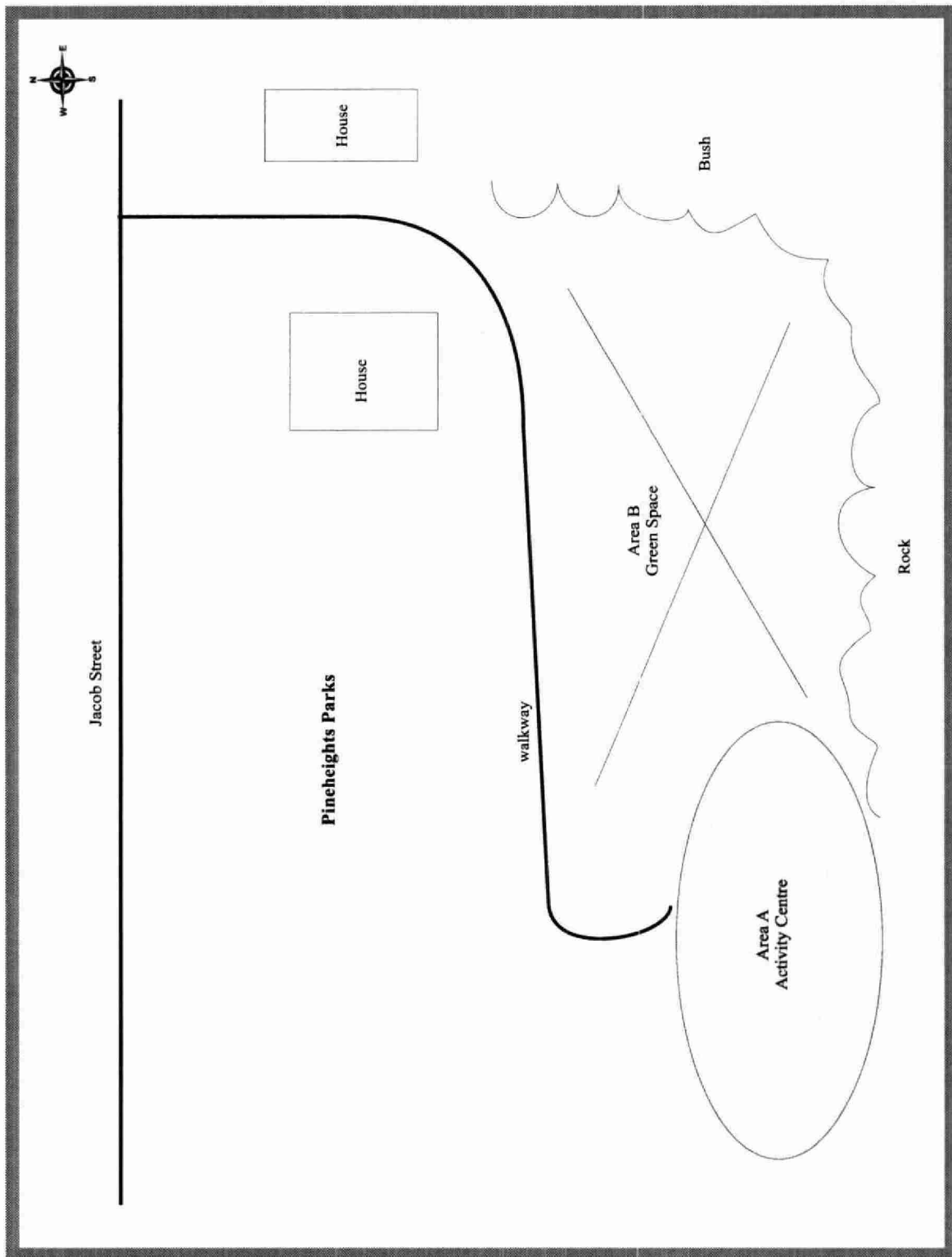


Map C5.14.7: Hillcrest Sports Centre, Lively - 2001.

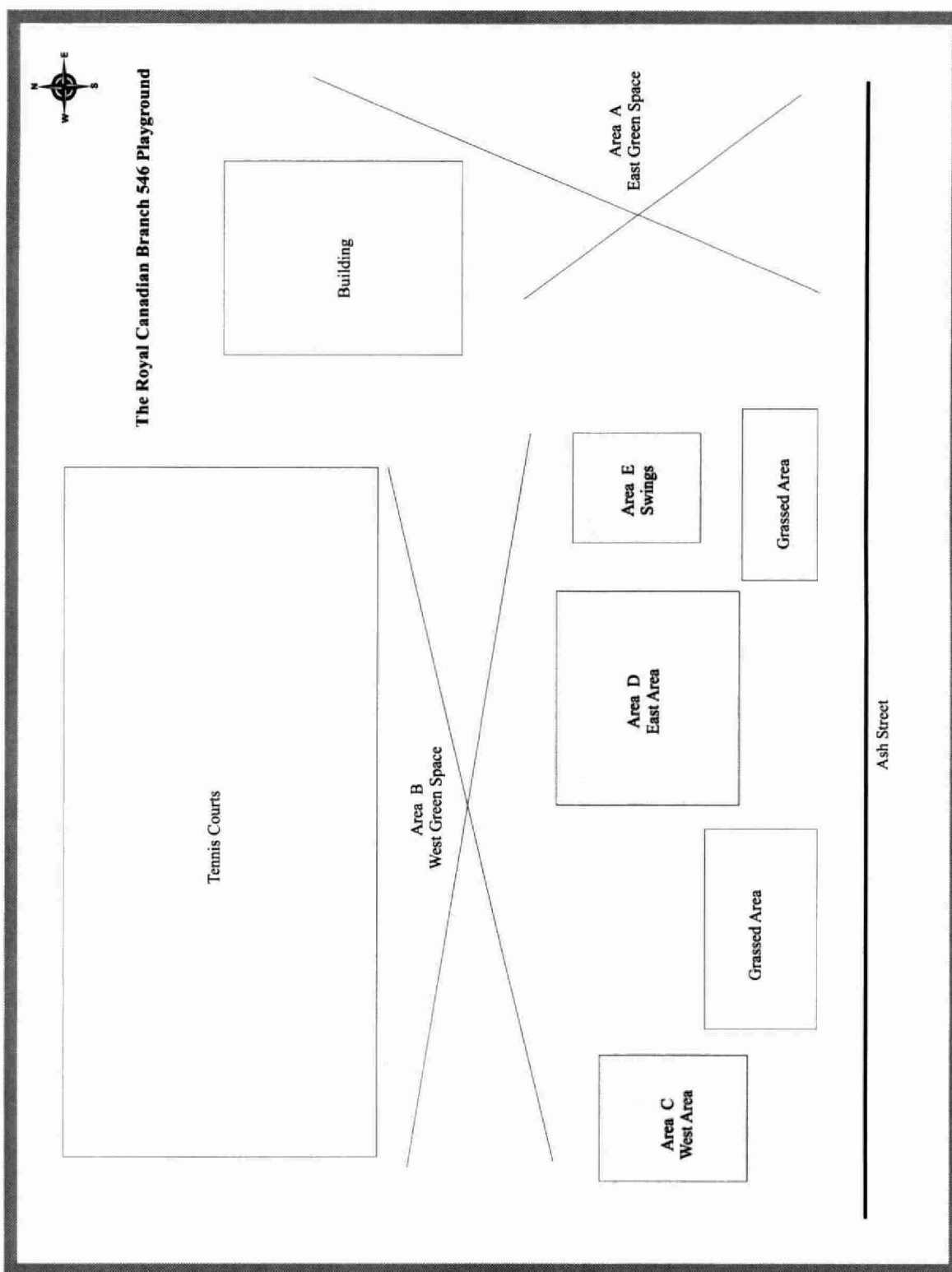




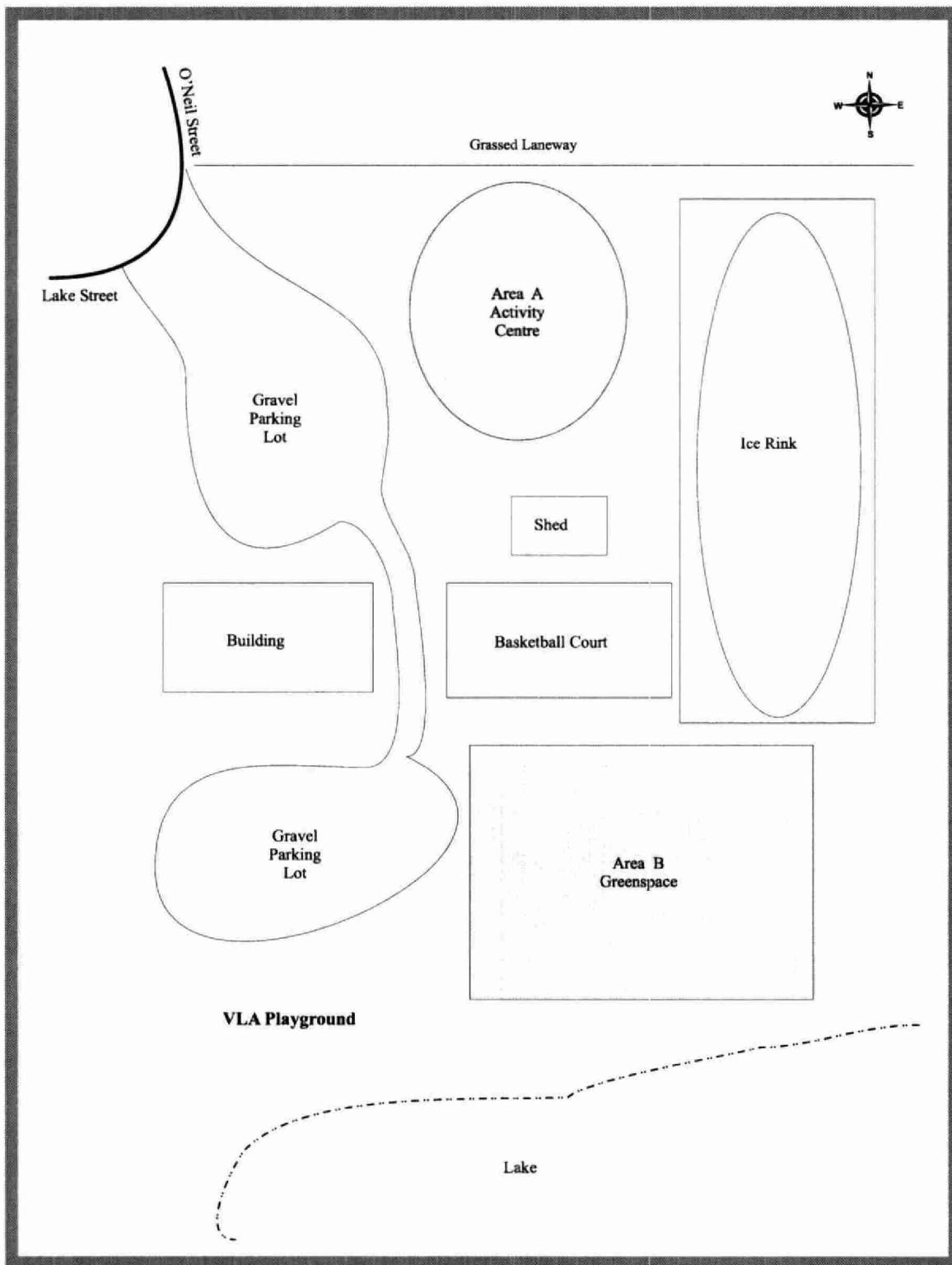
Map C5.14.9: Meatbird Lake Park, Lively - 2001.



Map C5.14.10: Pineheights Playground, Lively - 2001.

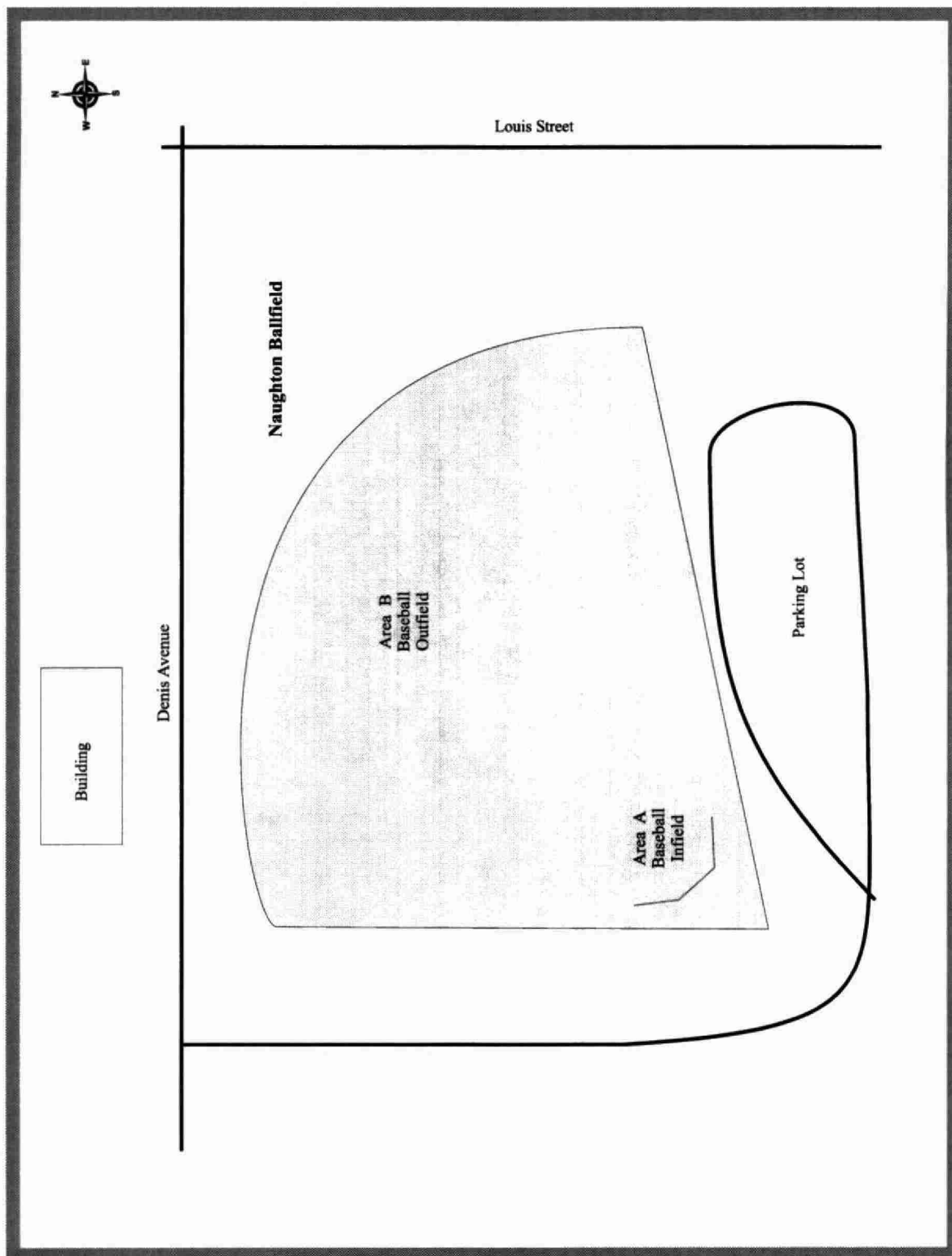


Map C5.14.11: Royal Canadian Legion Branch 546 Playground, Lively - 2001.

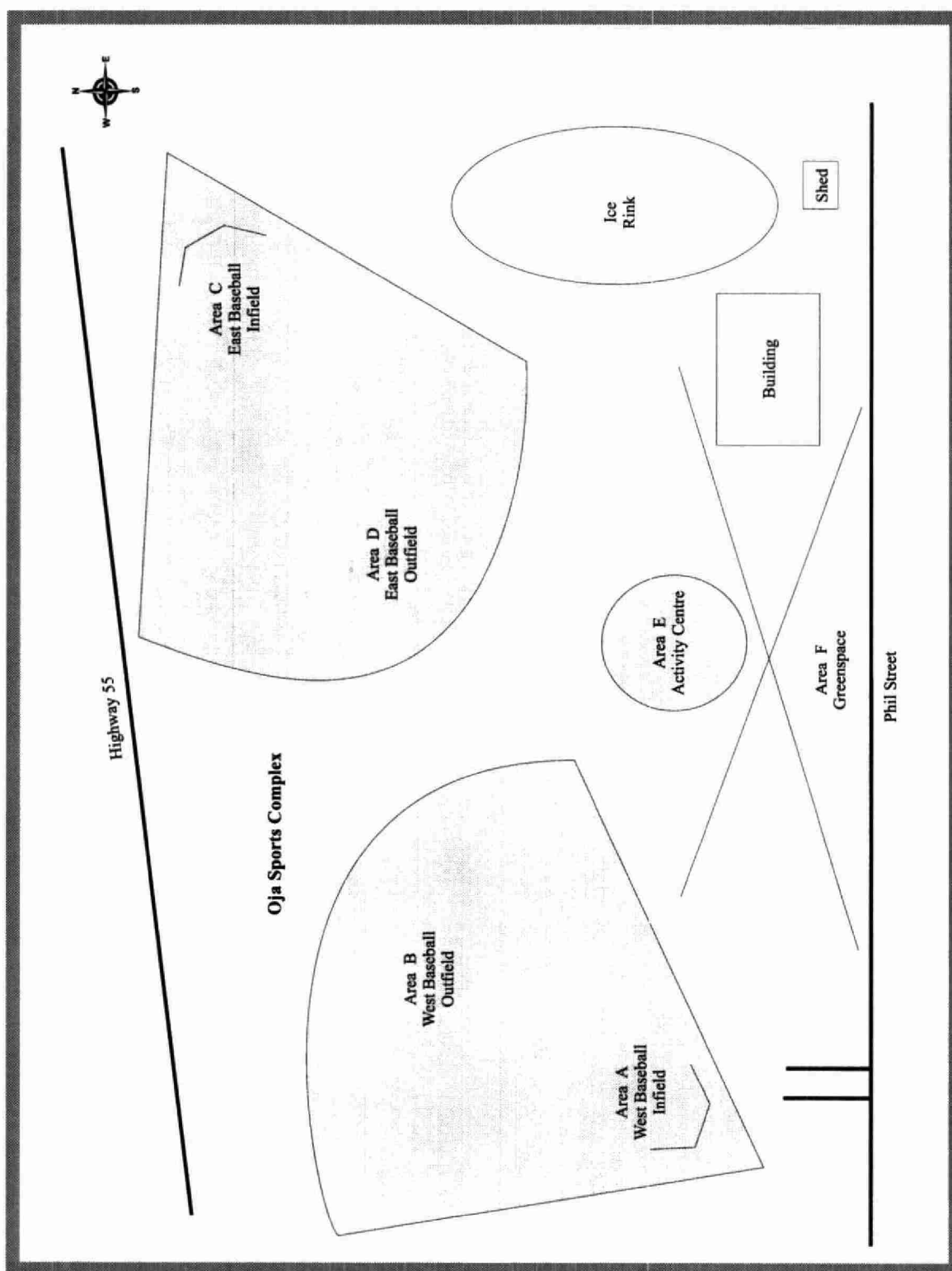


Map C5.14.12: V.L.A. Playground, Lively - 2001.

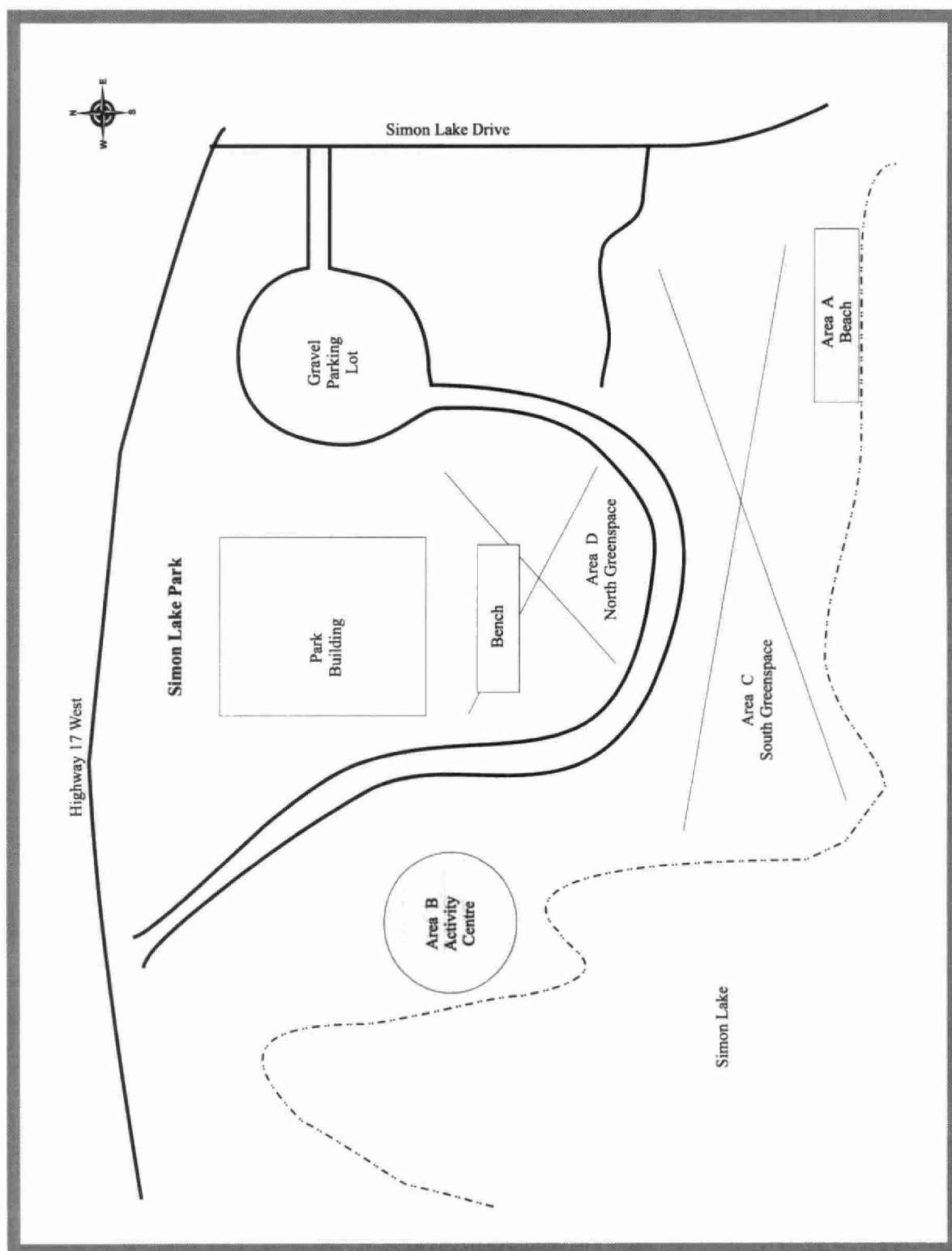
5.15 Naughton Park Maps



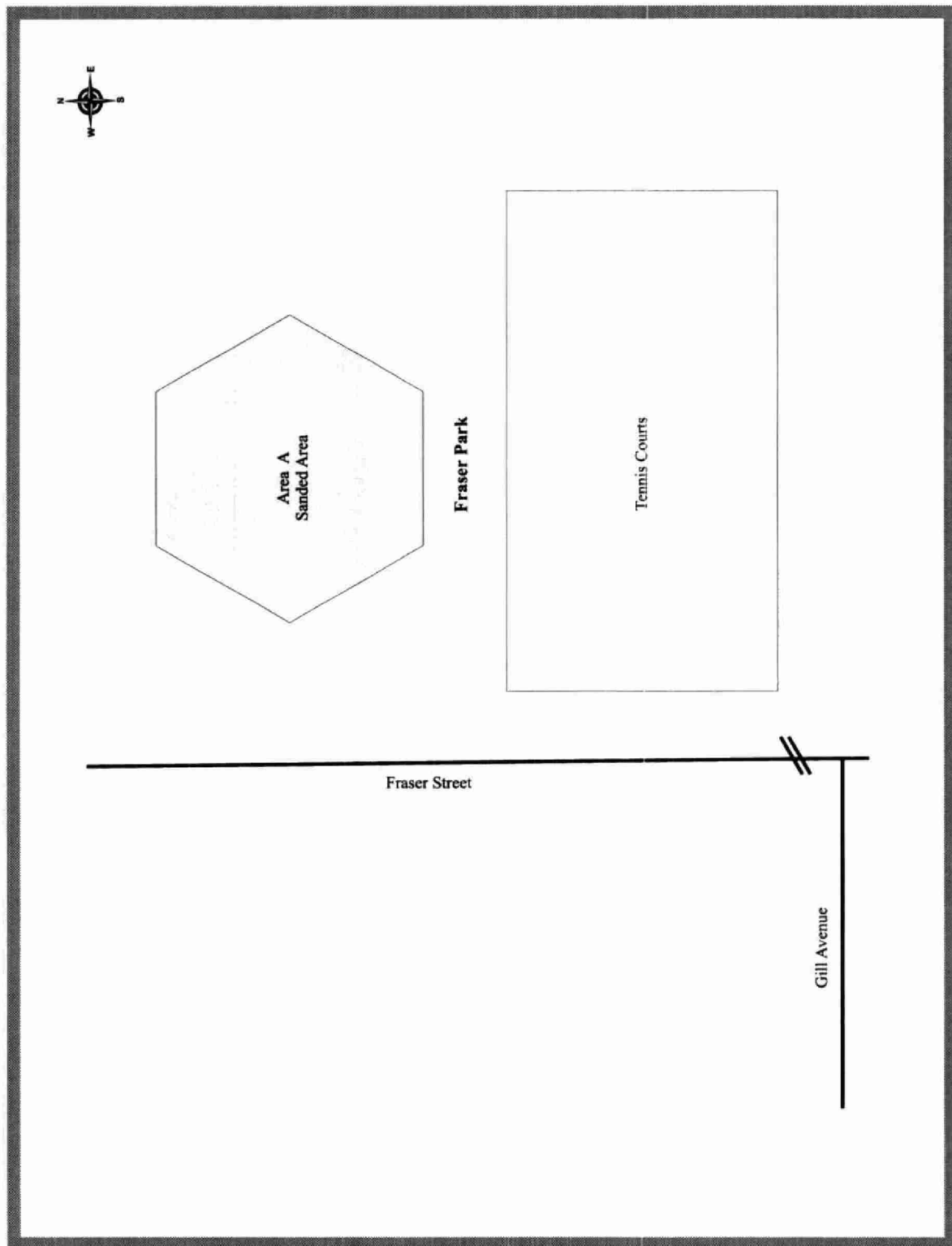
Map C5.15.1: Naughton Ballfield, Naughton - 2001.

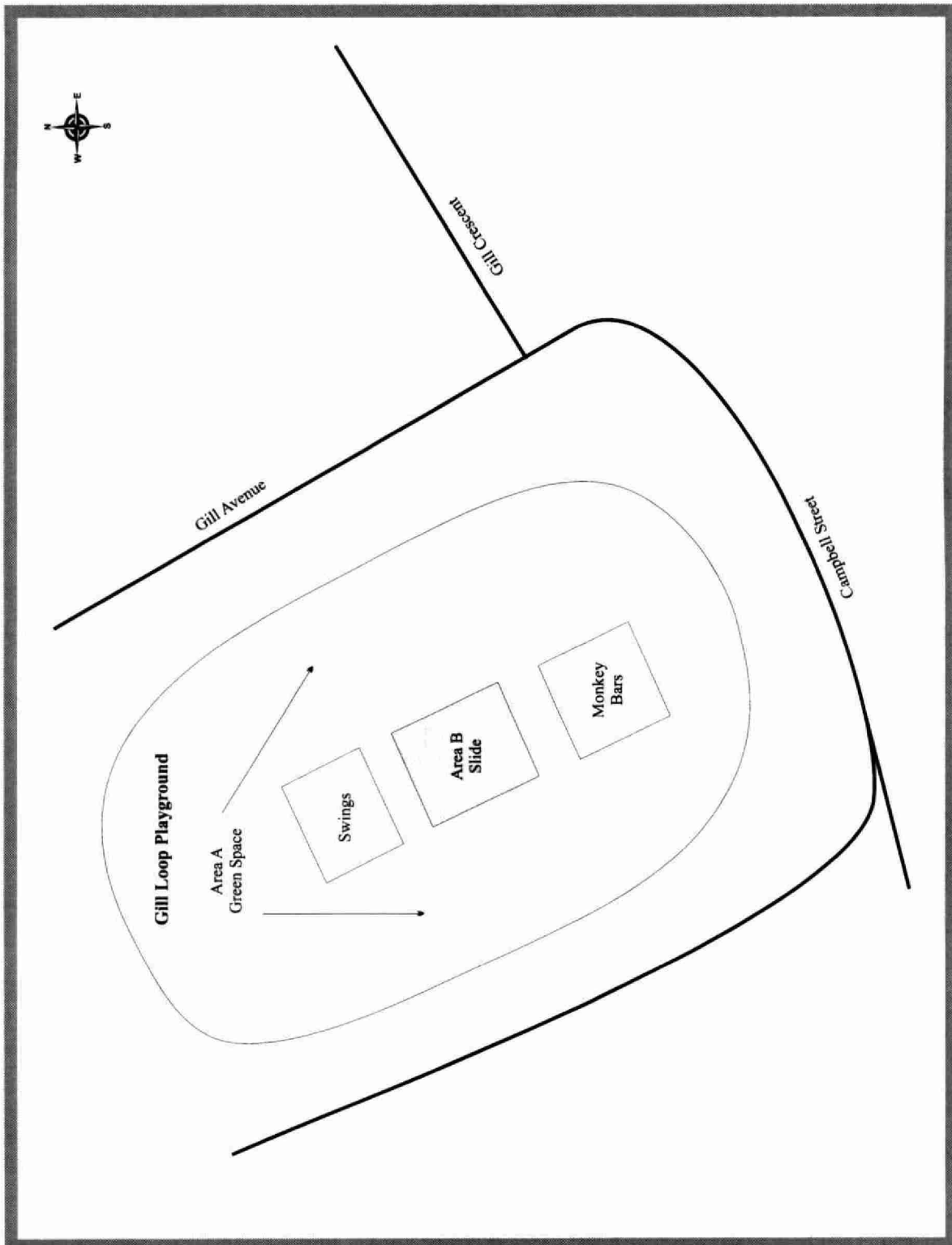


Map C5.15.2: Oja Sports Complex (Simon Lake Sports Complex), Naughton - 2001.

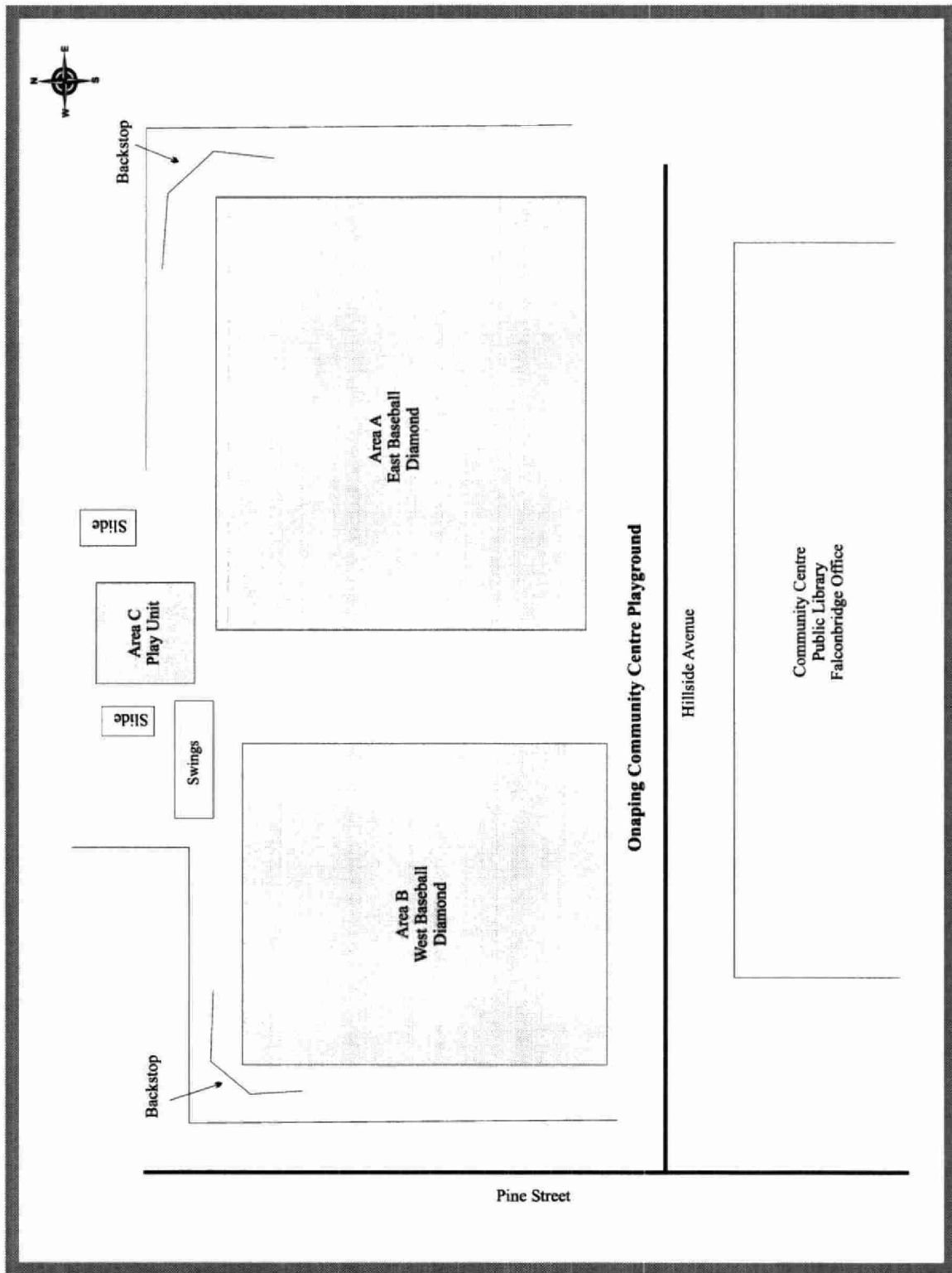


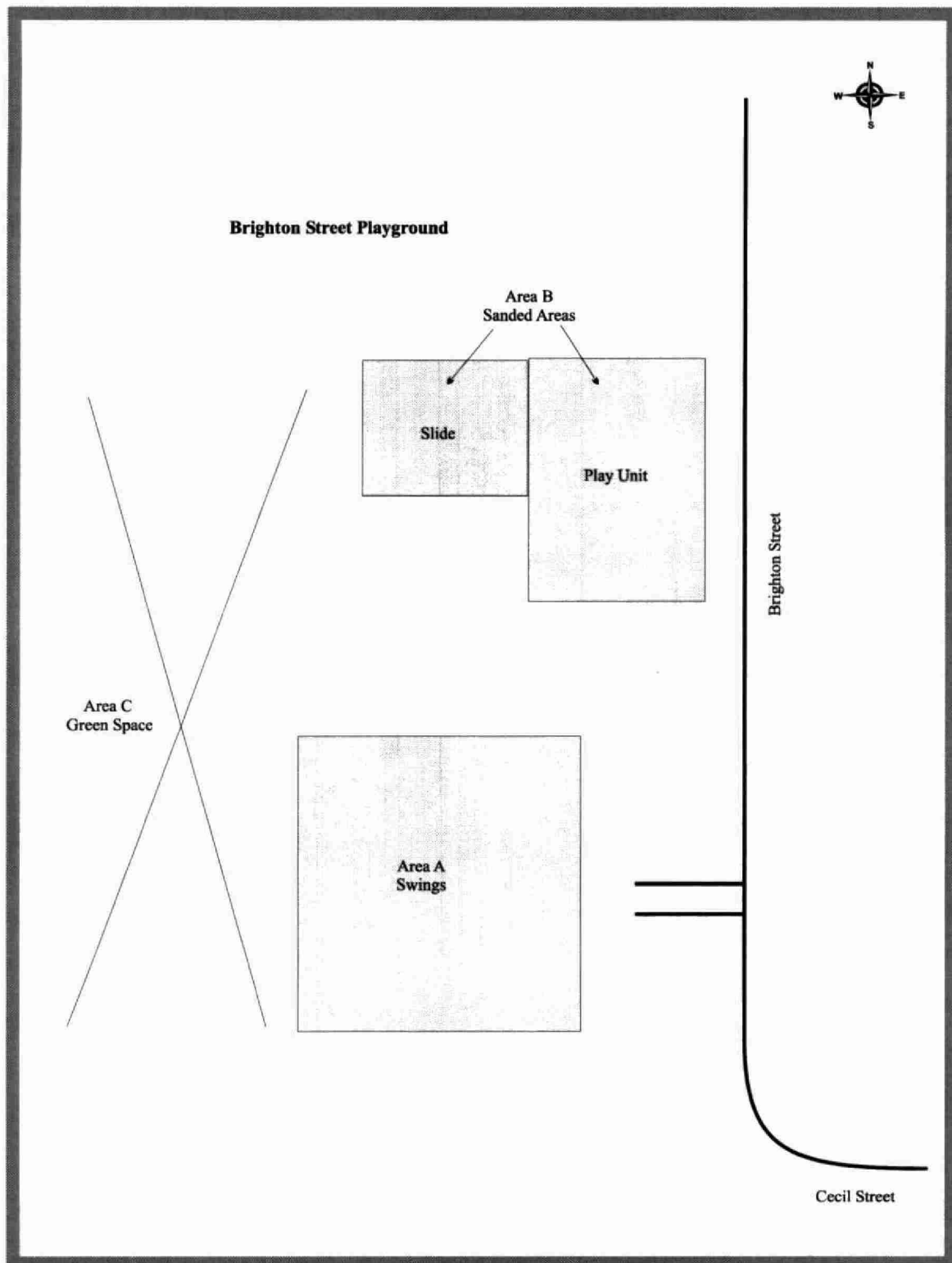
Map C5.15.3: Simon Lake Park, Naughton - 2001.

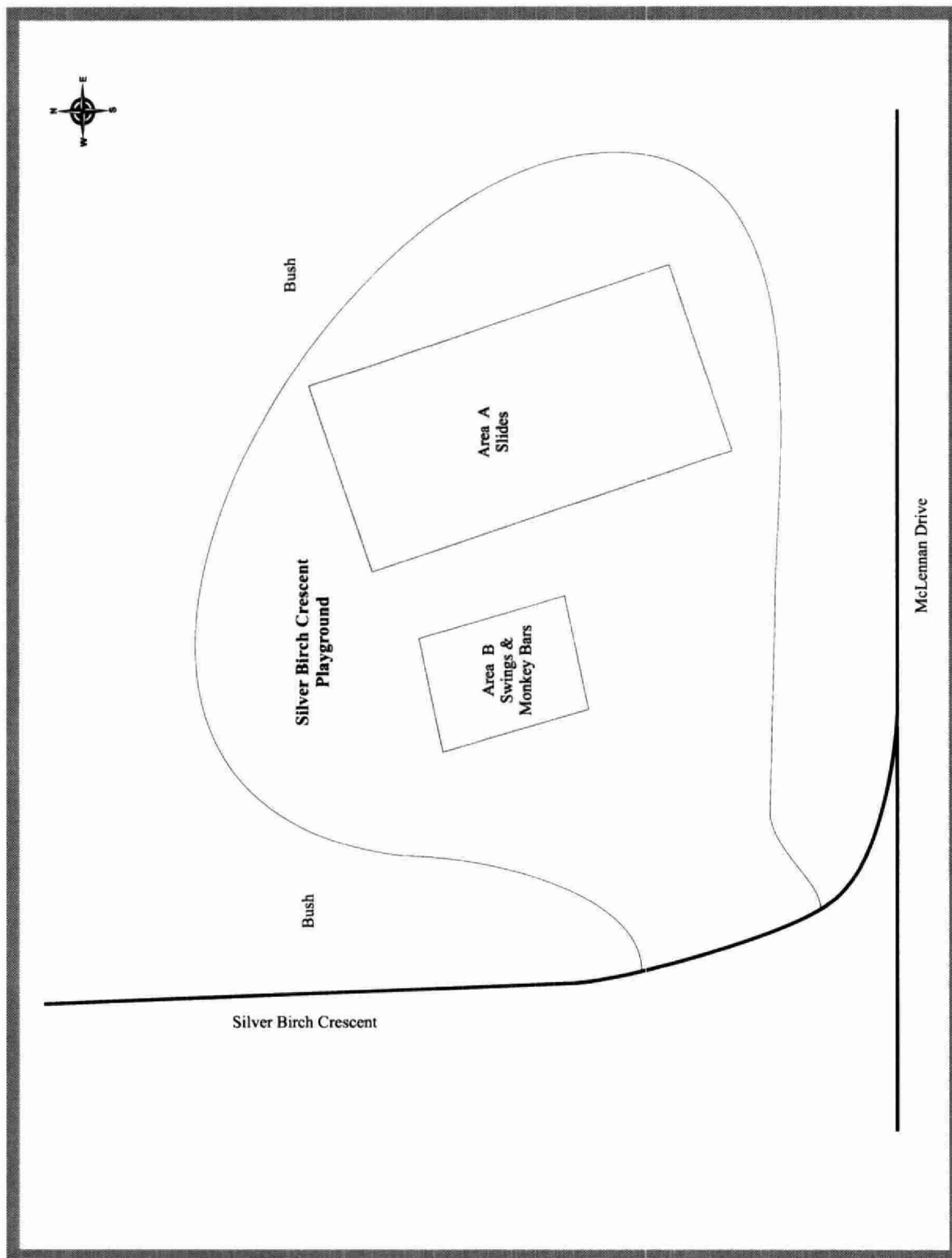
5.16 Onaping Falls Park Maps**Map C5.16.1:** Fraser Park (Onaping Tot Lot), Onaping Falls - 2001.



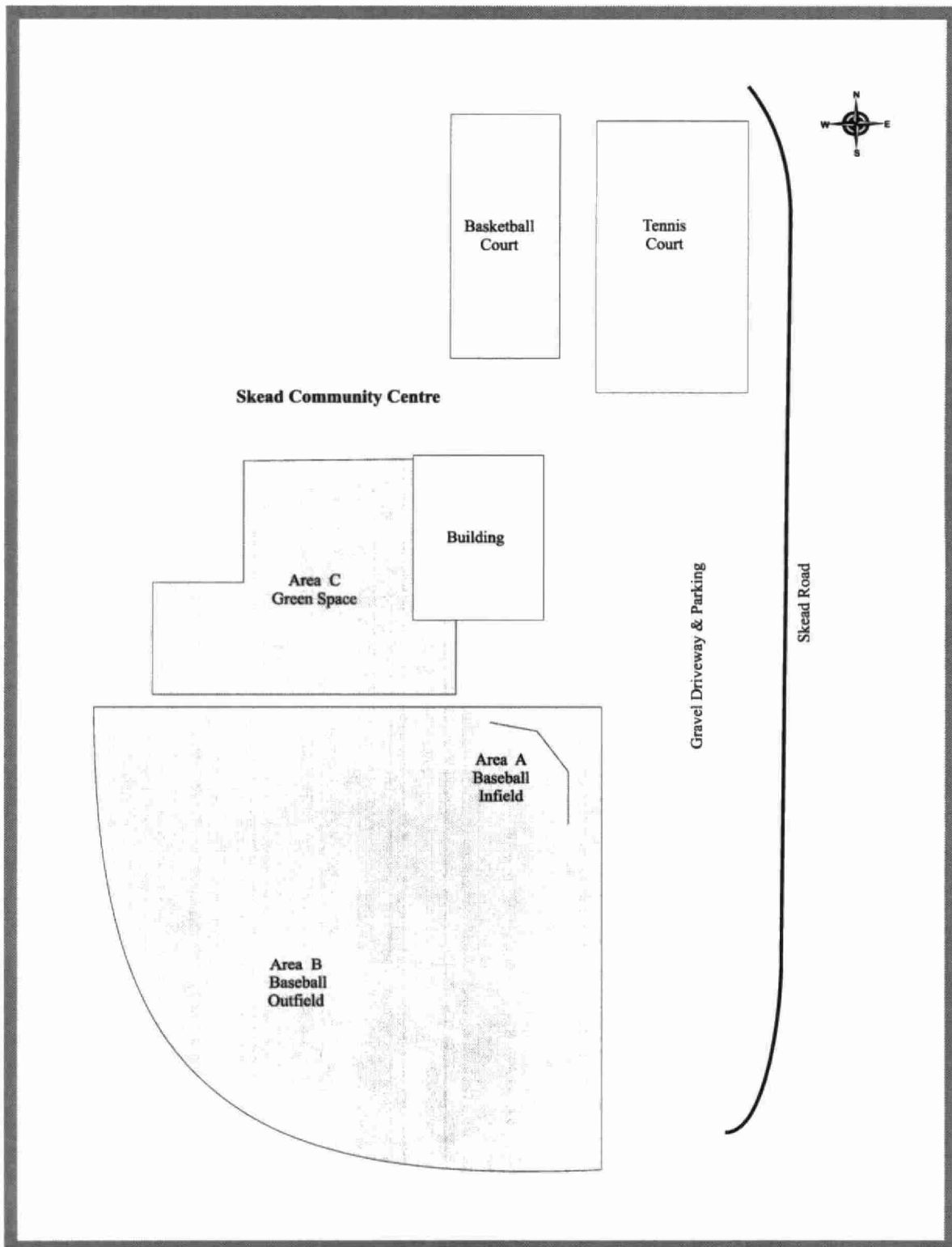
Map C5.16.2: Gill Loop Playground, Onaping Falls - 2001.



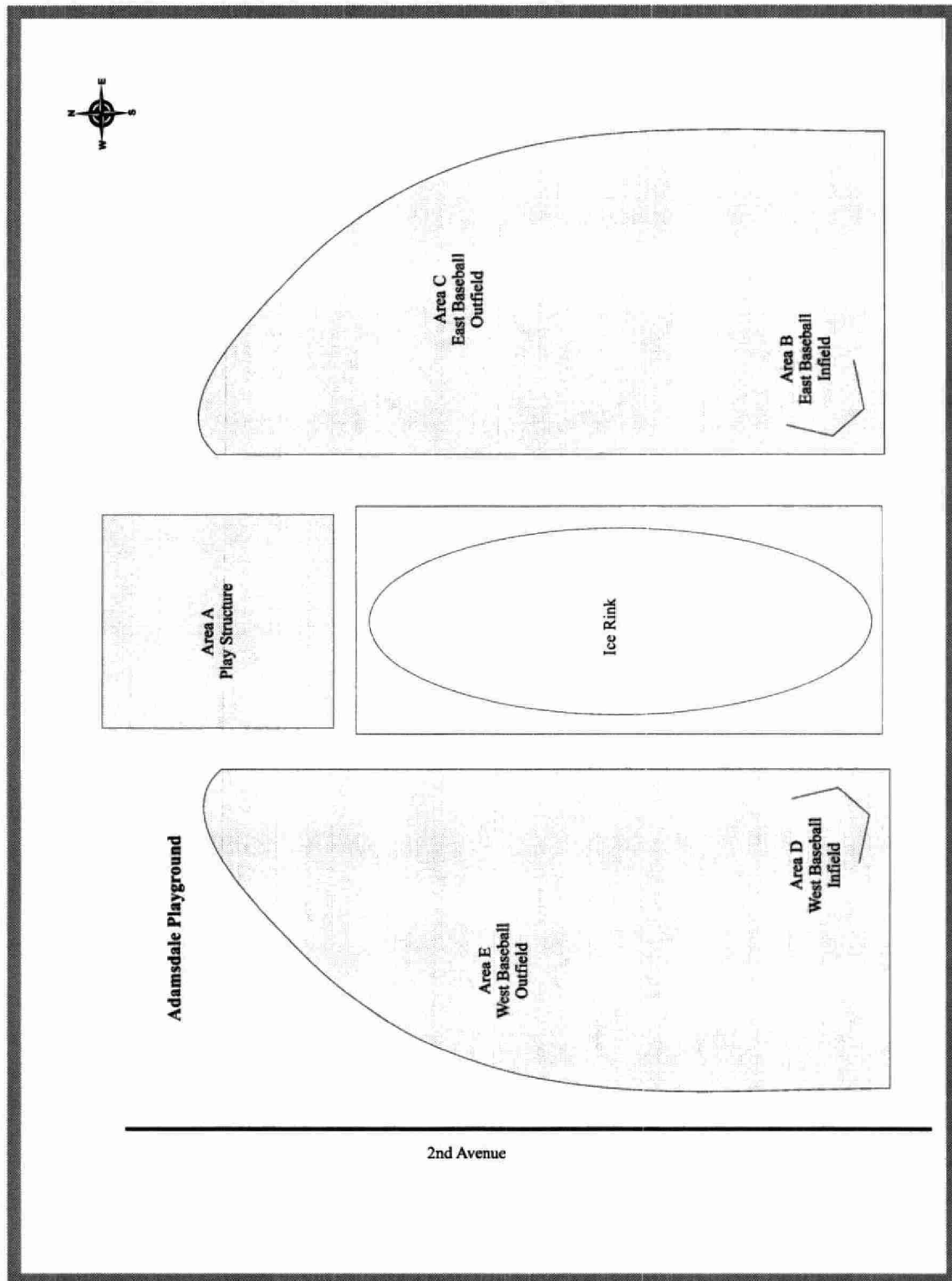
5.17 Skead Park Maps**Map C5.17.1: Brighton Street Playground, Skead - 2001.**

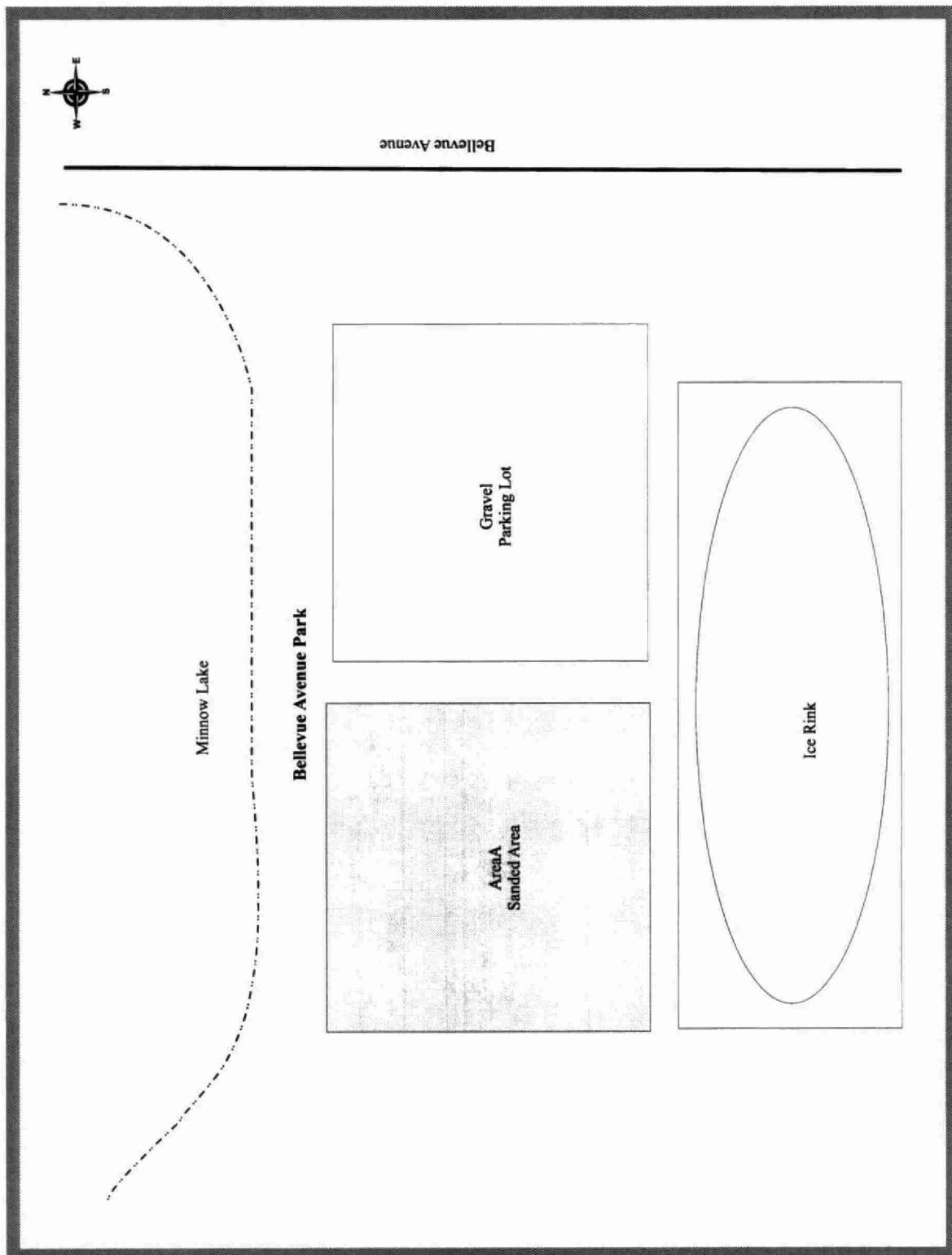


Map C5.17.2: MacLennan Playground (Silver Birch Crescent Playground), Skead - 2001.

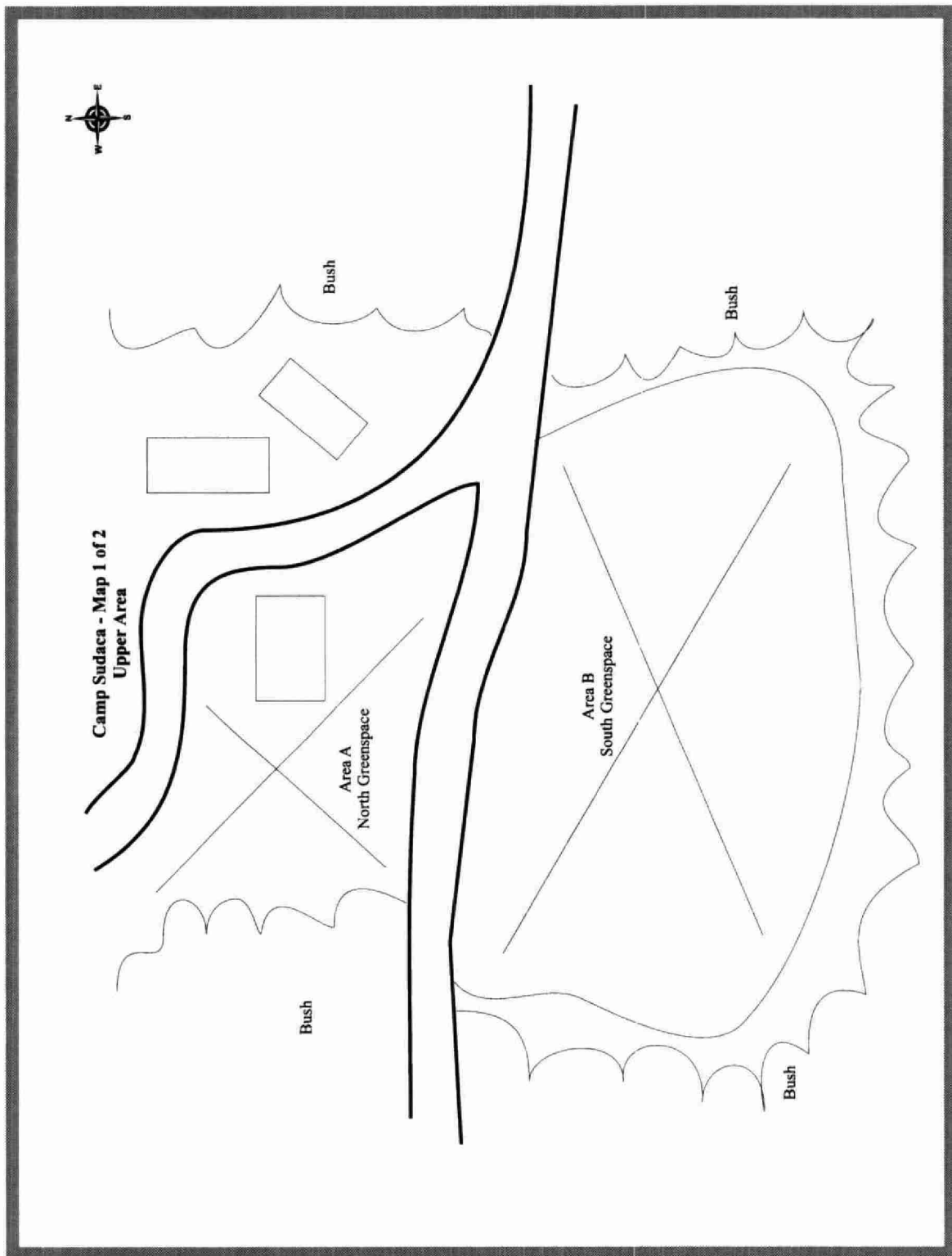


Map C5.17.3: Skead Community Centre, Skead - 2001.

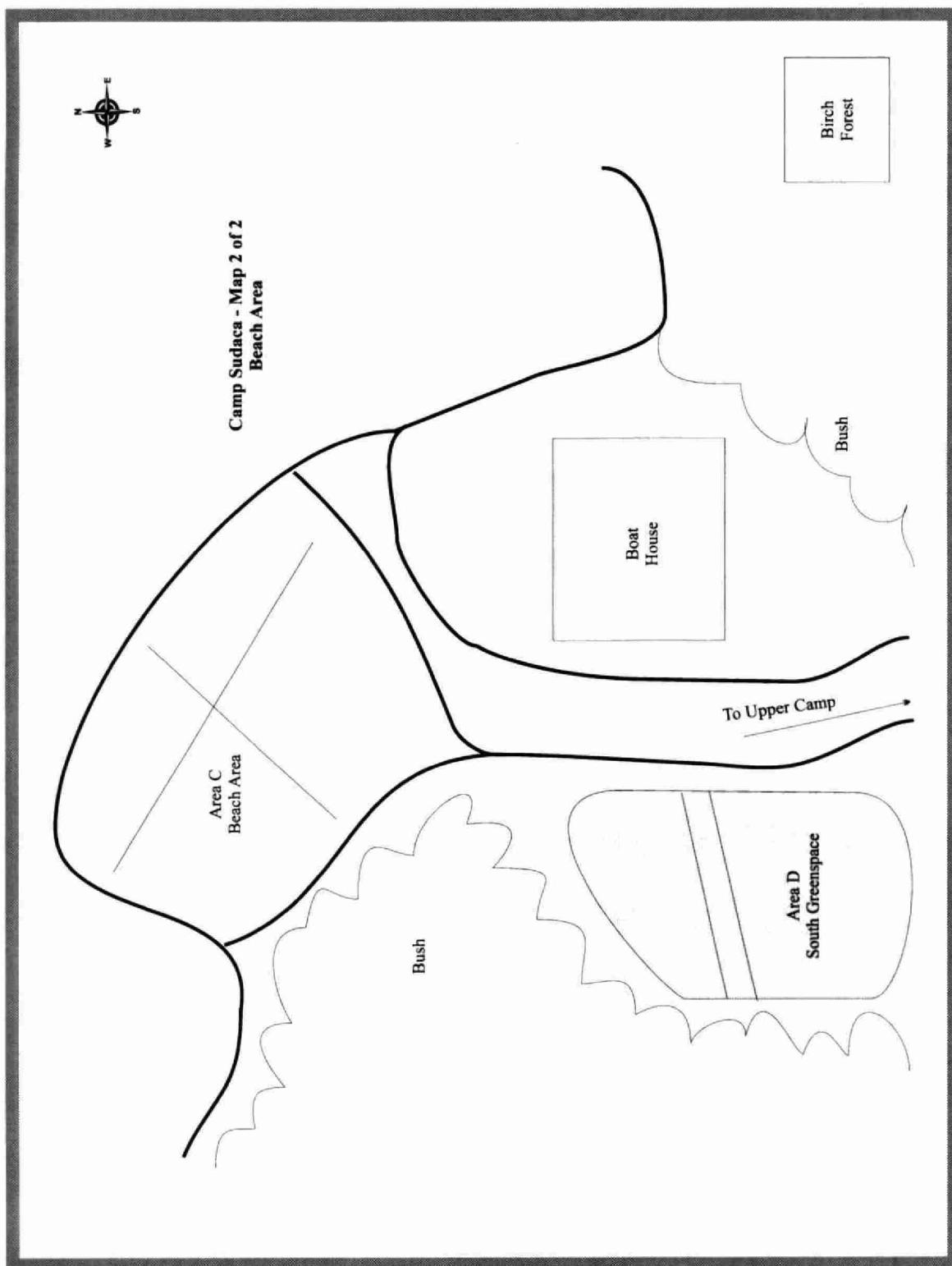
5.18 Sudbury East Park Maps**Map C5.18.1: Adamsdale Playground, Sudbury East - 2001.**



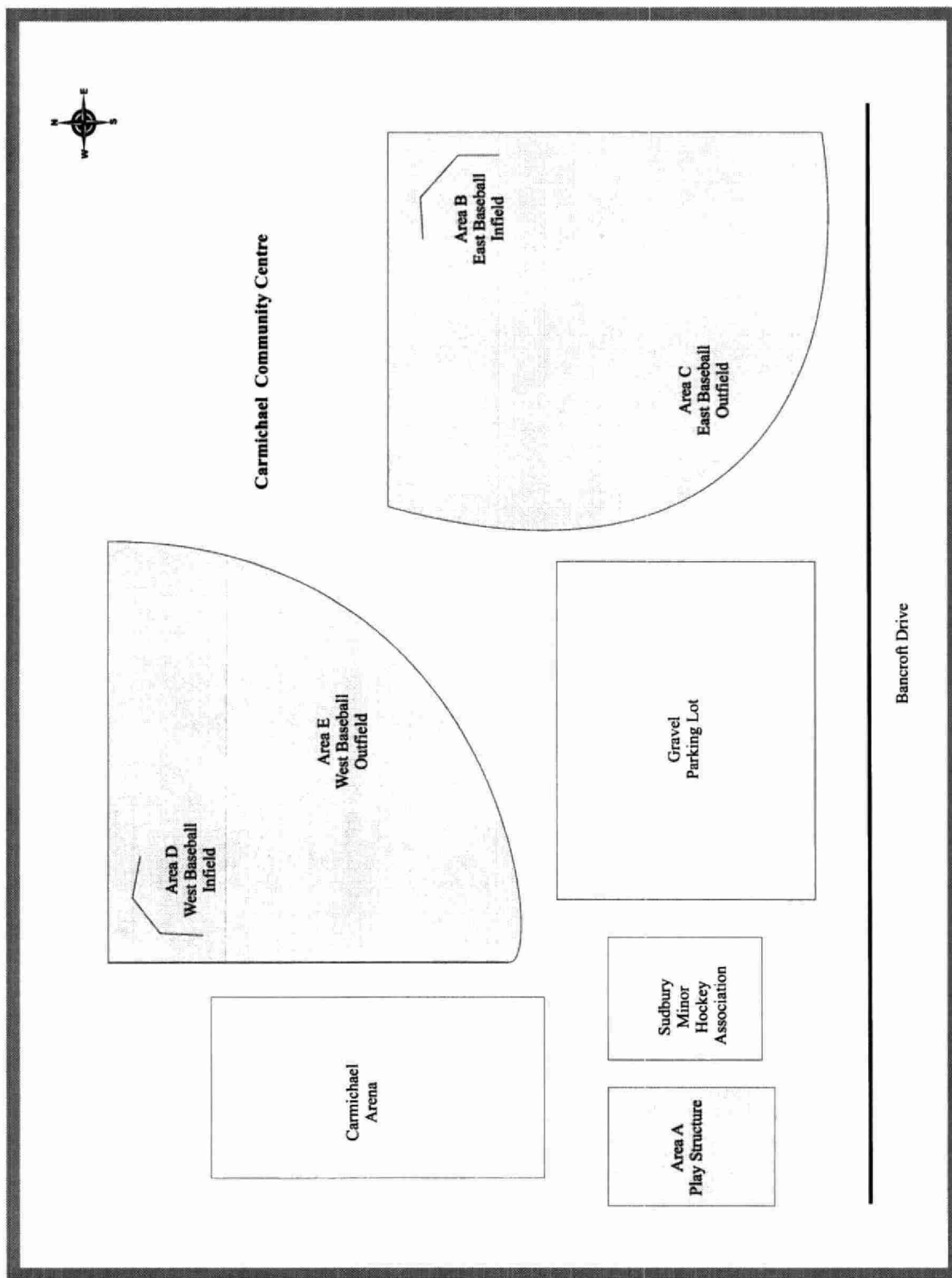
Map C5.18.2: Bellevue Avenue Park, Sudbury East - 2001.



Map C5.18.3.1: Upper Area of Camp Sudaca, Sudbury East -2001.



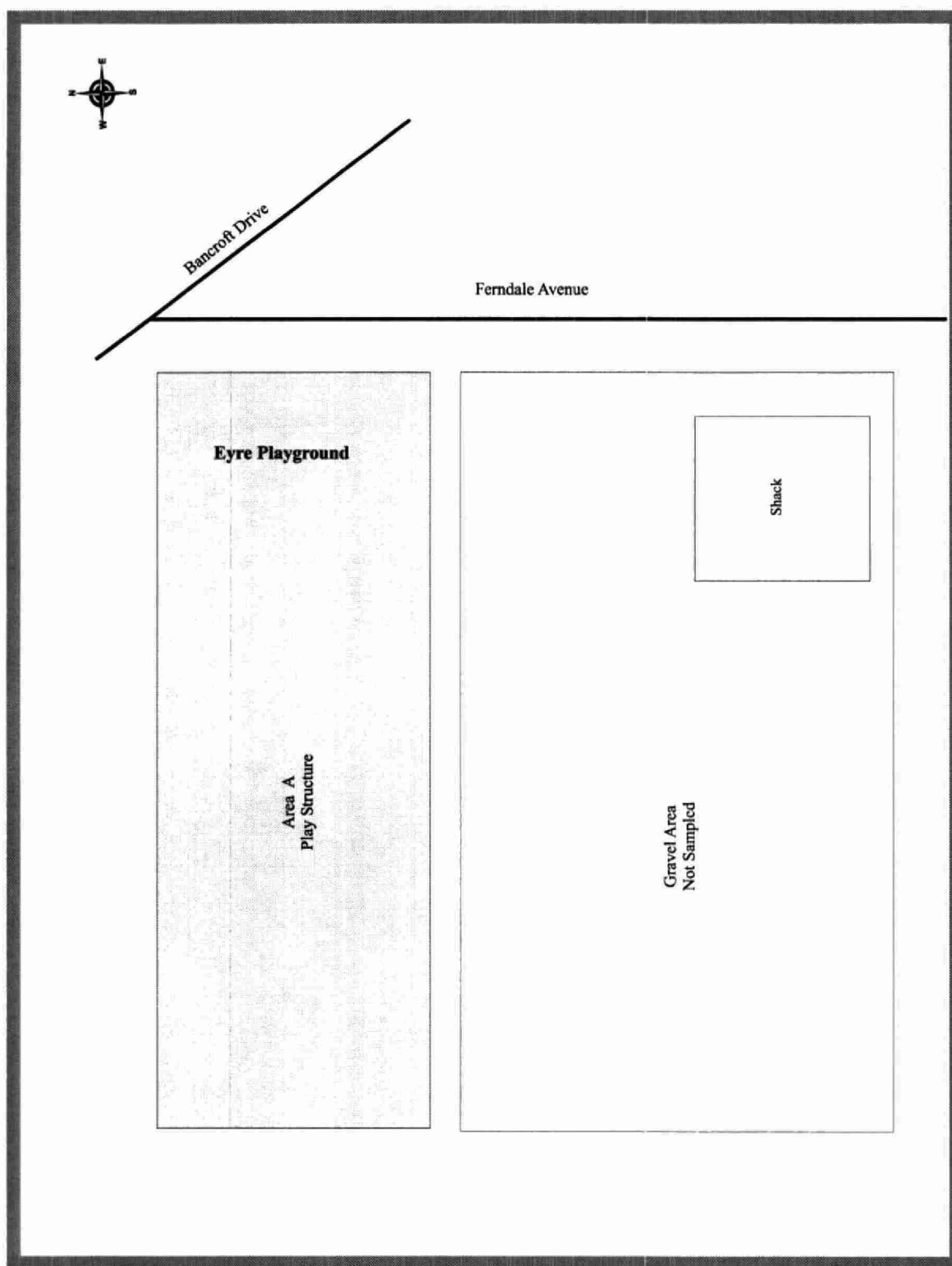
Map C5.18.3.2: Beach Area of Camp Sudaca, Sudbury East - 2001.



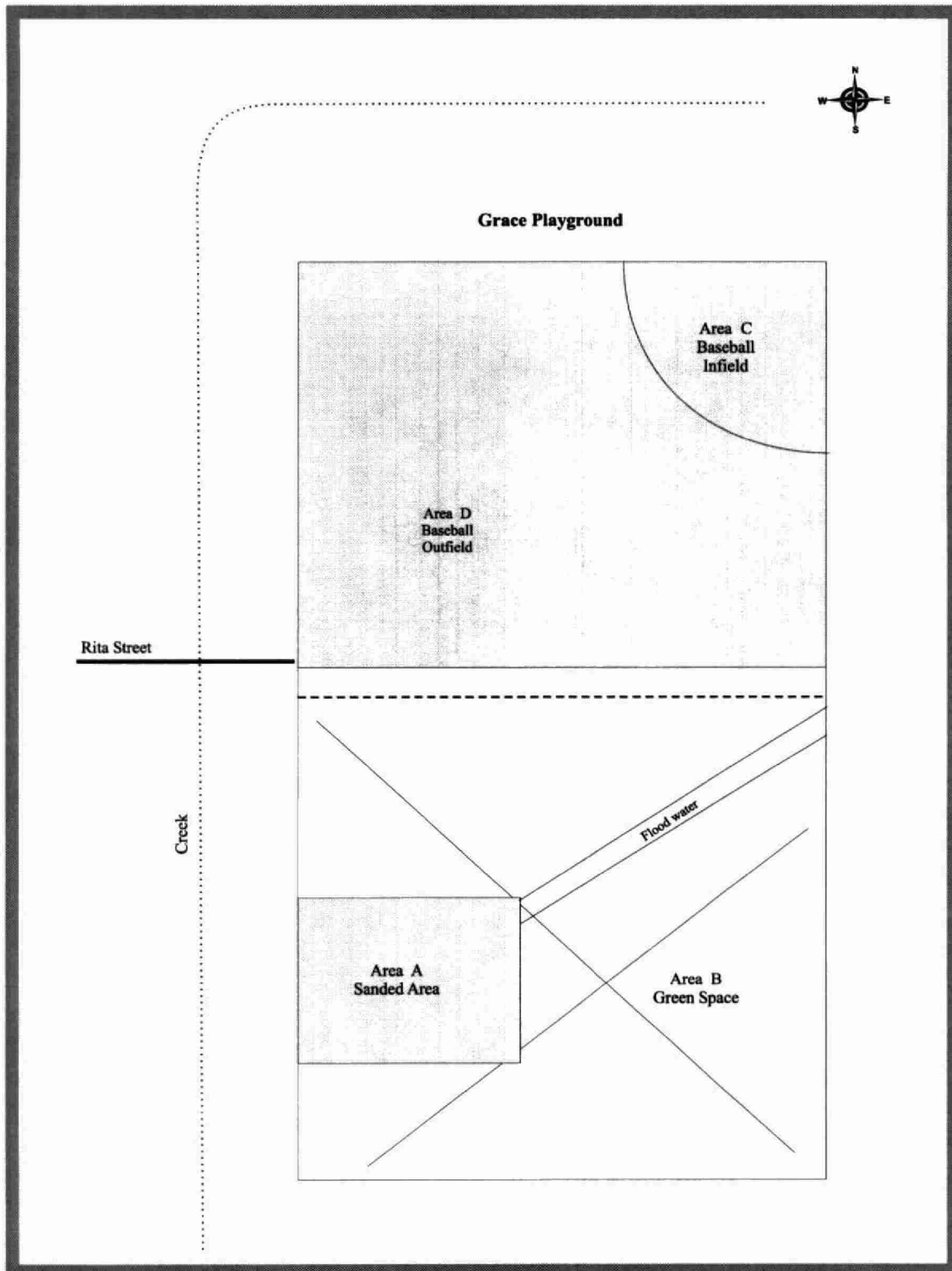
Map C5.18.4: Carmichael Community Centre & Arena, Sudbury East - 2001.

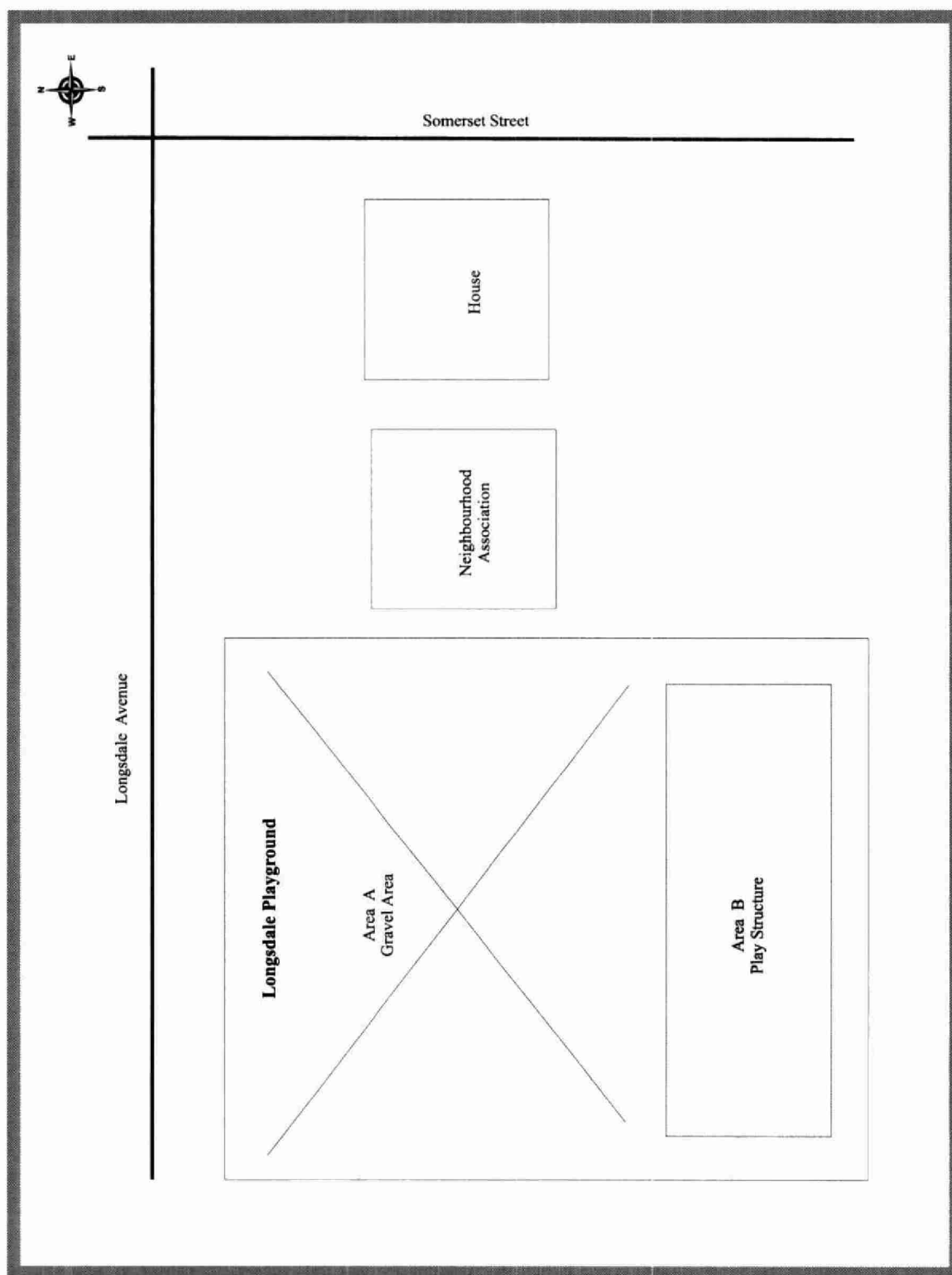


Map C5.18.5: East End Playground, Sudbury East - 2001.

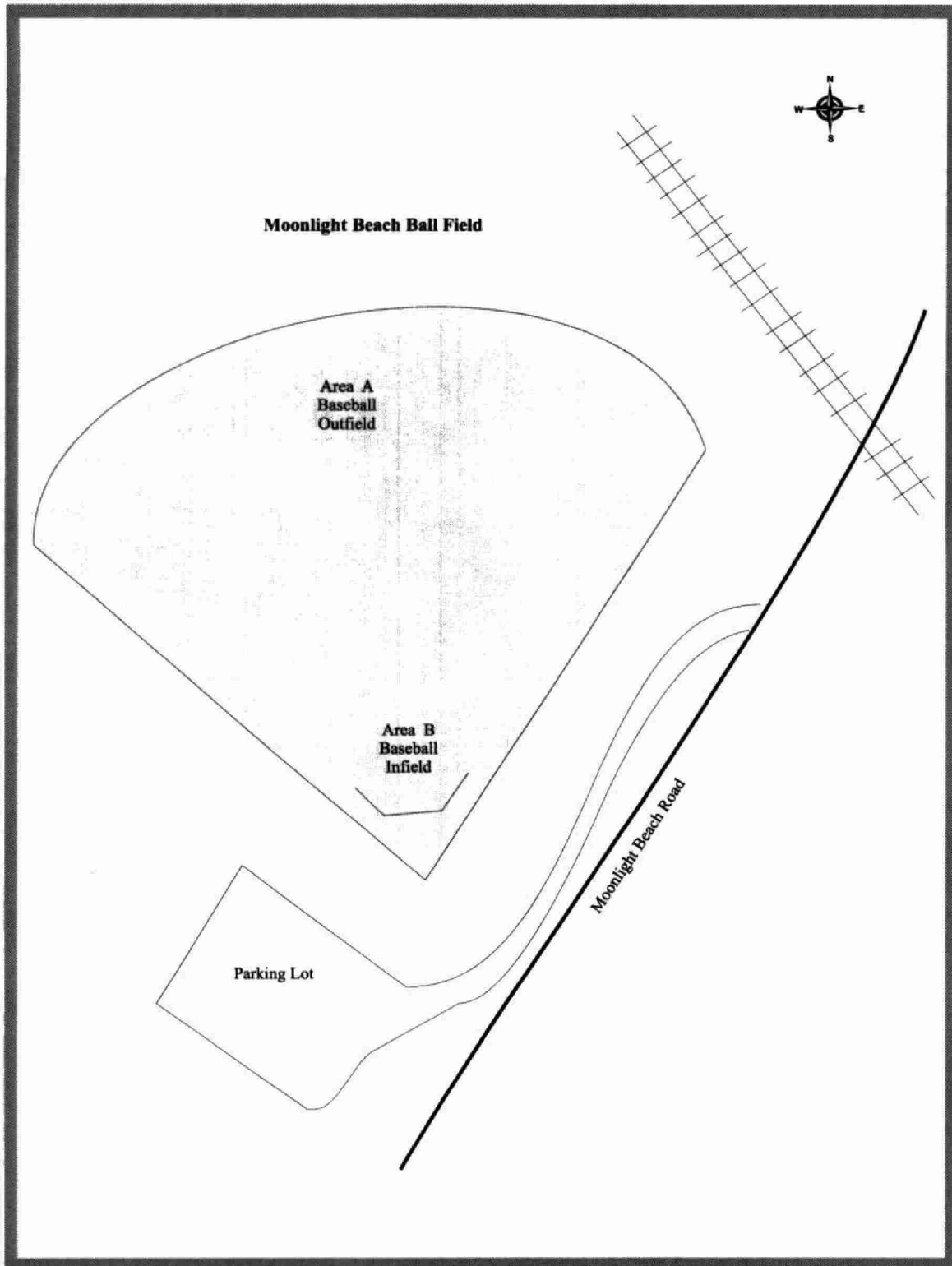


Map C5.18.6: Eyre Playground, Sudbury East - 2001.

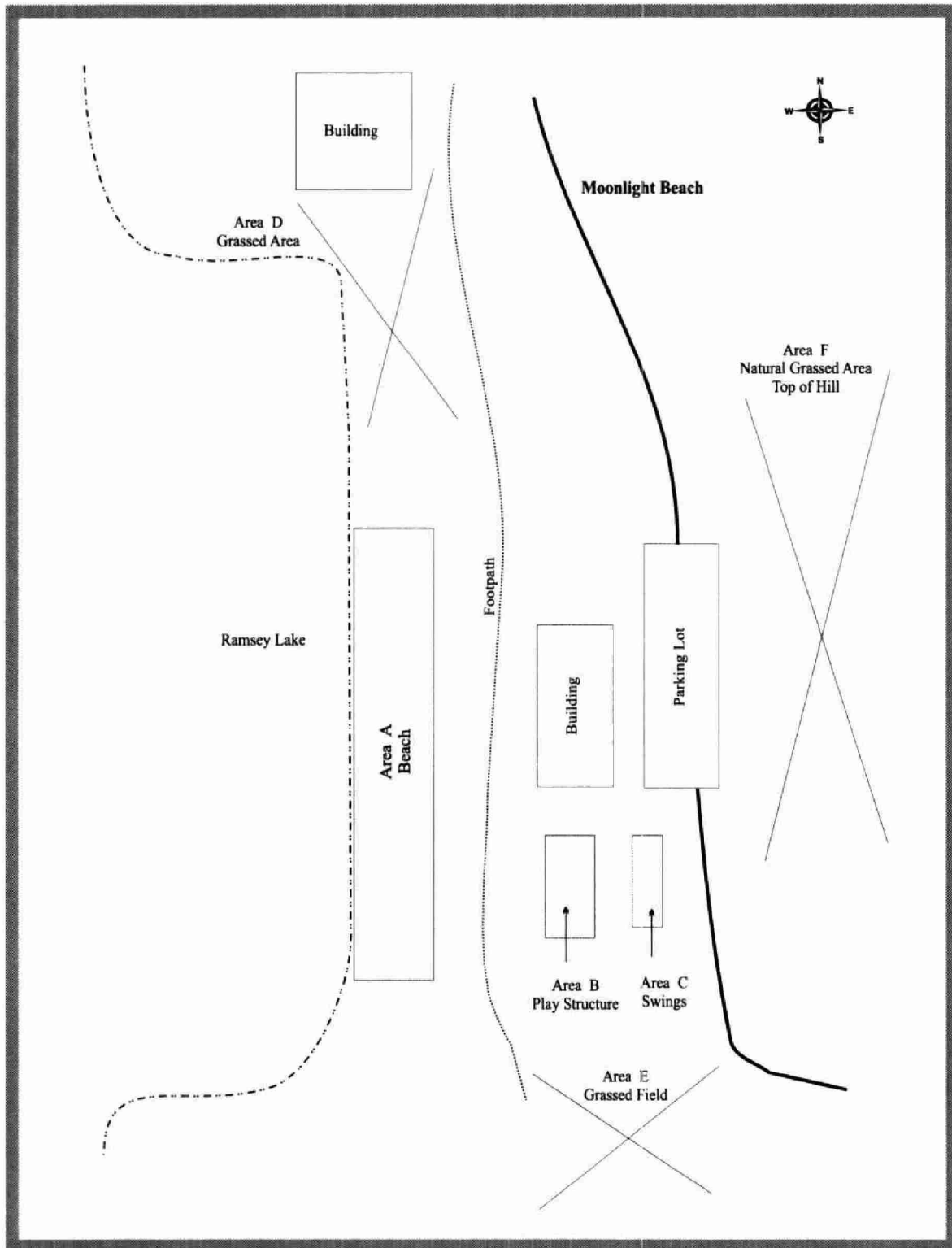
**Map C5.18.7: Grace Playground, Sudbury East - 2001.**



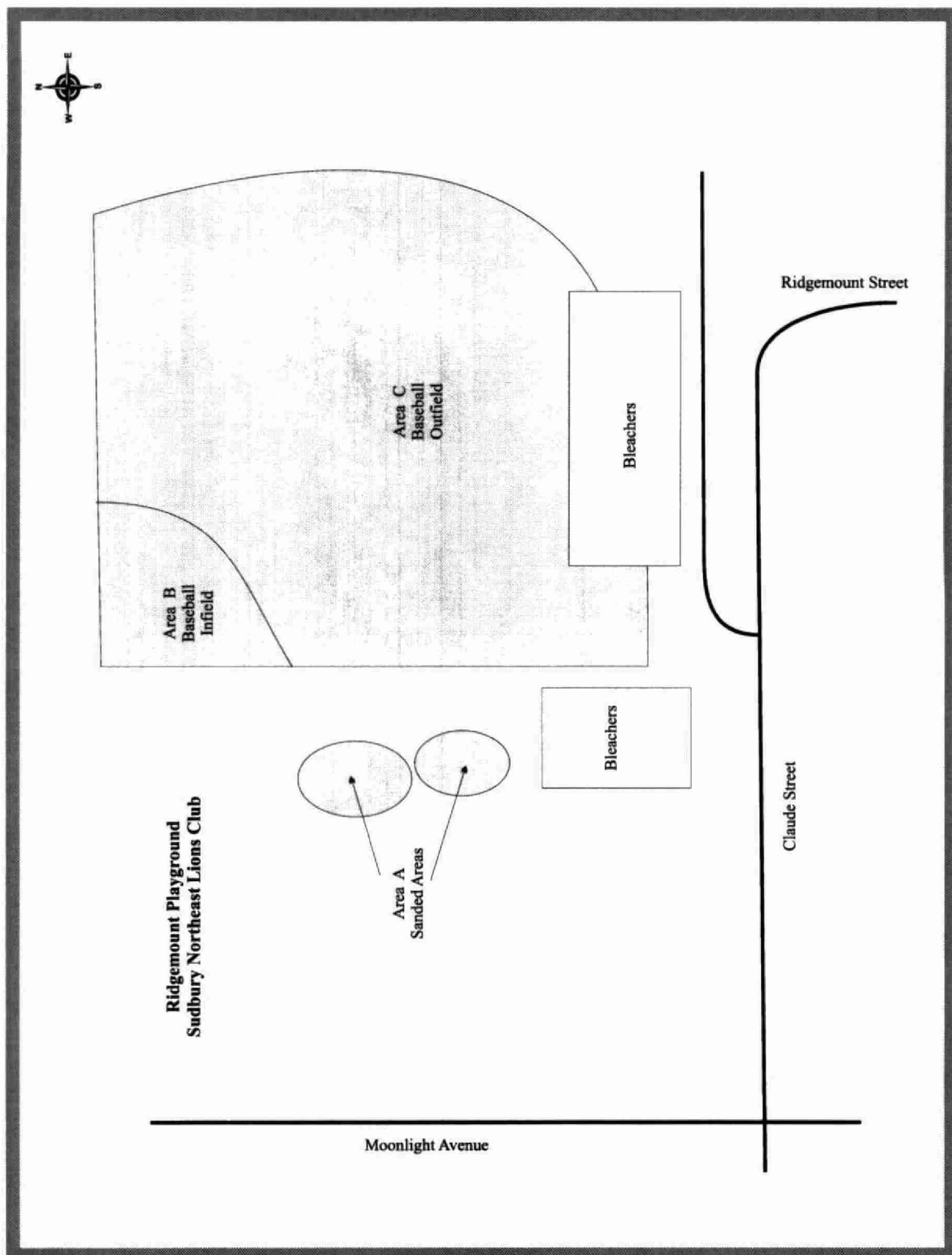
Map C5.18.8: Lonsdale Playground, Sudbury East - 2001.



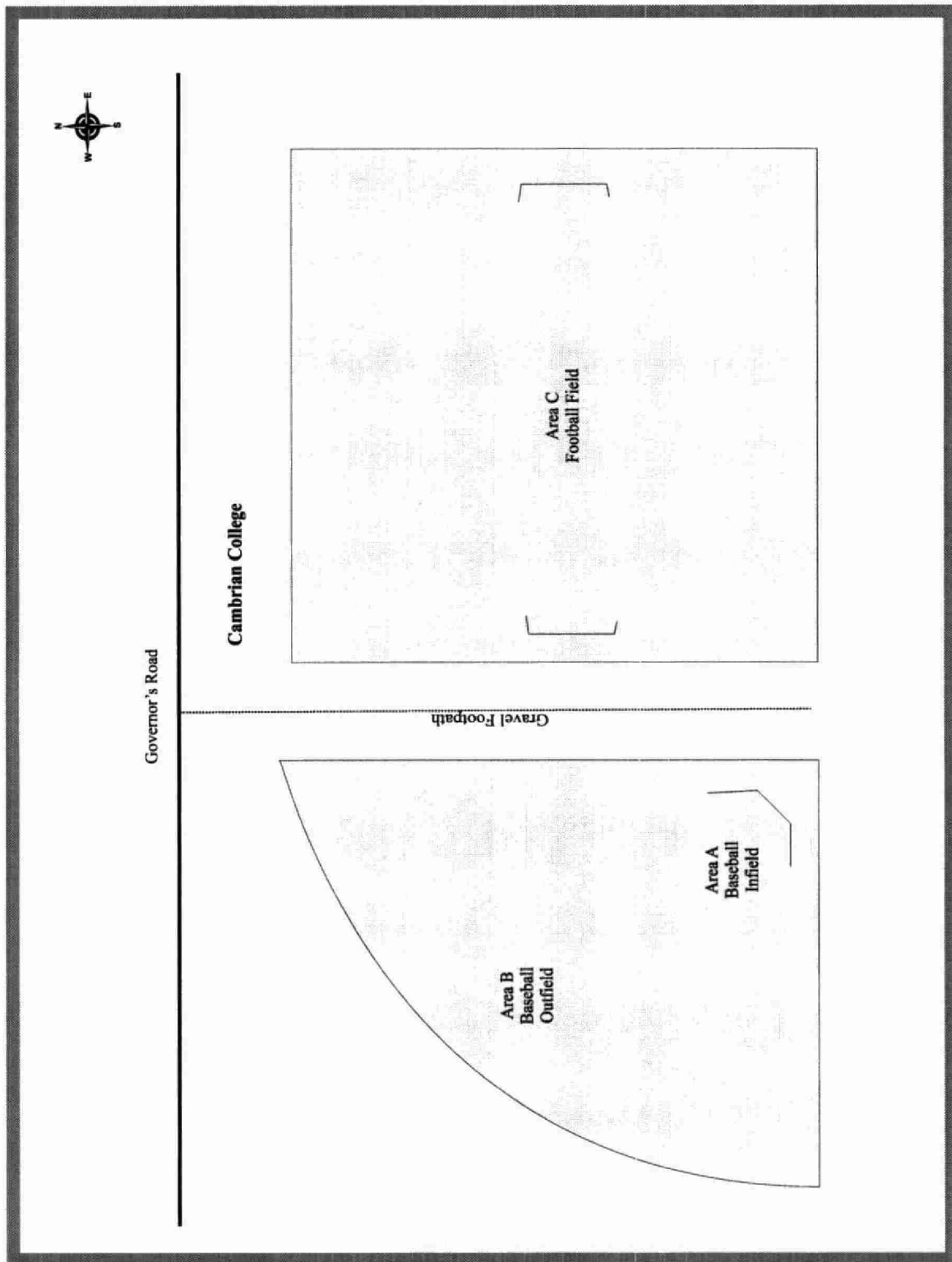
Map C5.18.9: Moonlight Beach Ball Park, Sudbury East - 2001.

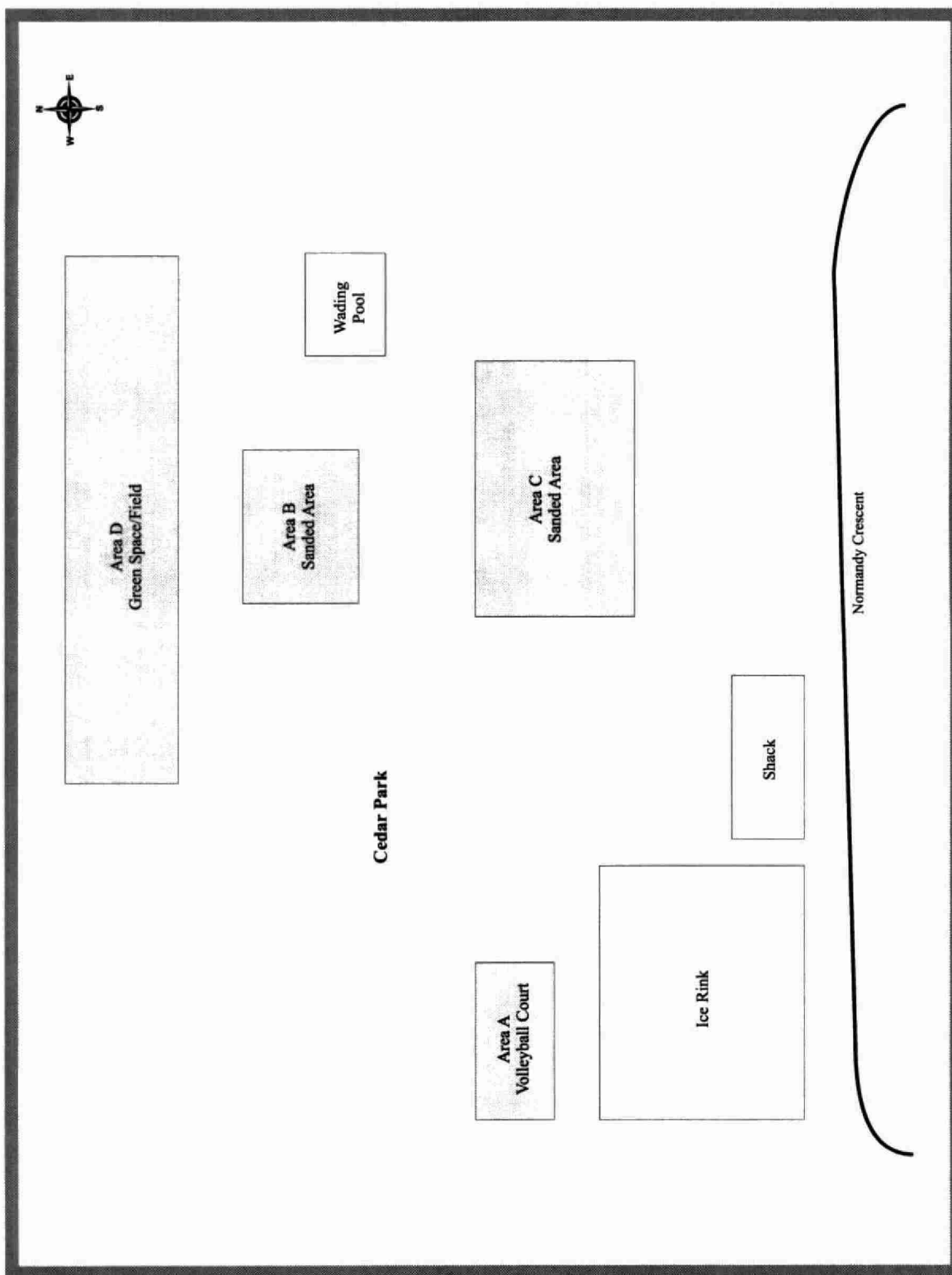


Map C5.18.10: Moonlight Beach Park, Sudbury East - 2001.

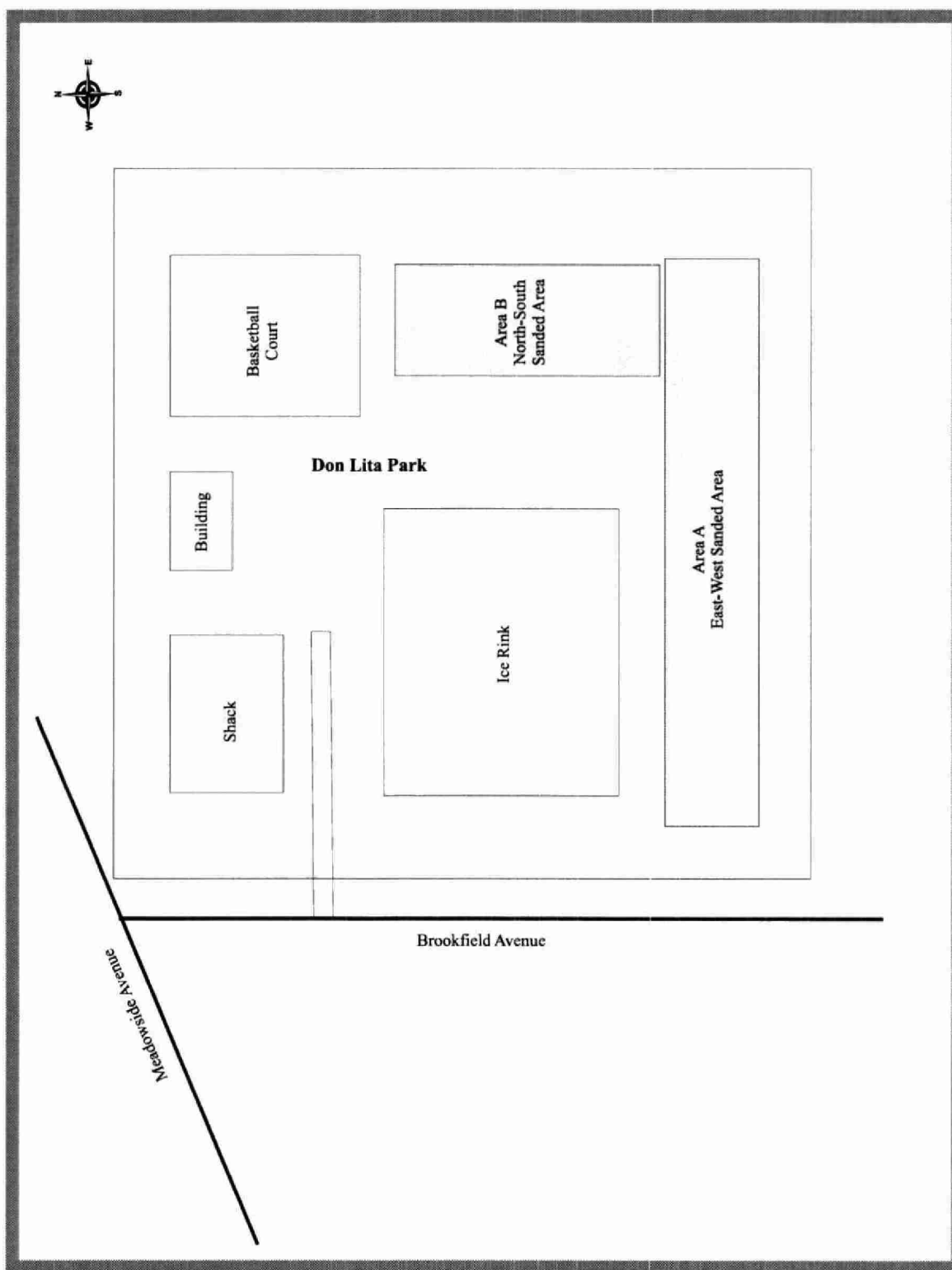


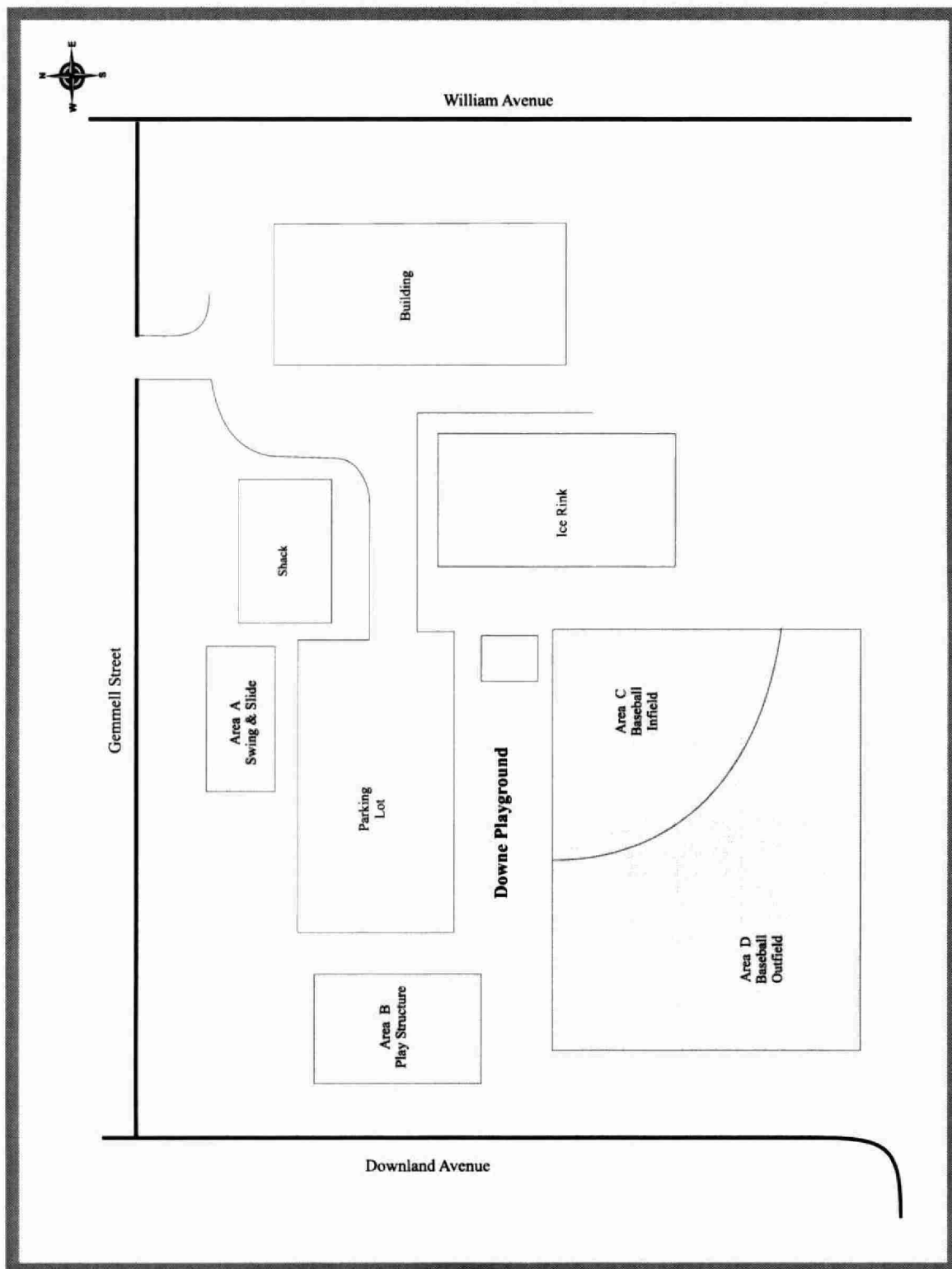
Map C5.18.11: Ridgemount Playground (Sudbury Northeast Lions Club), Sudbury East - 2001.

5.19 Sudbury New Park Maps

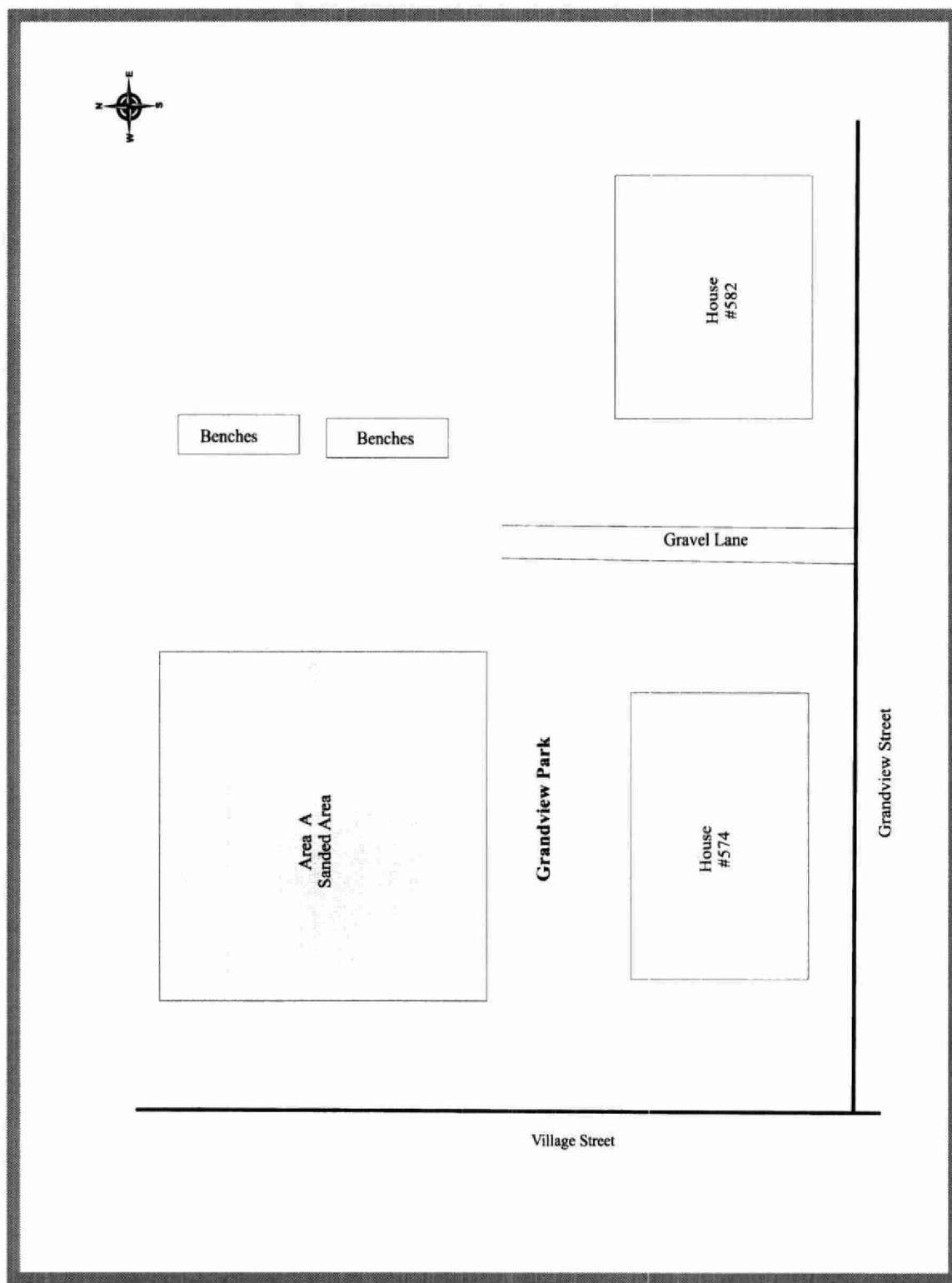


Map C5.19.2: Cedar Park, Sudbury New - 2001.

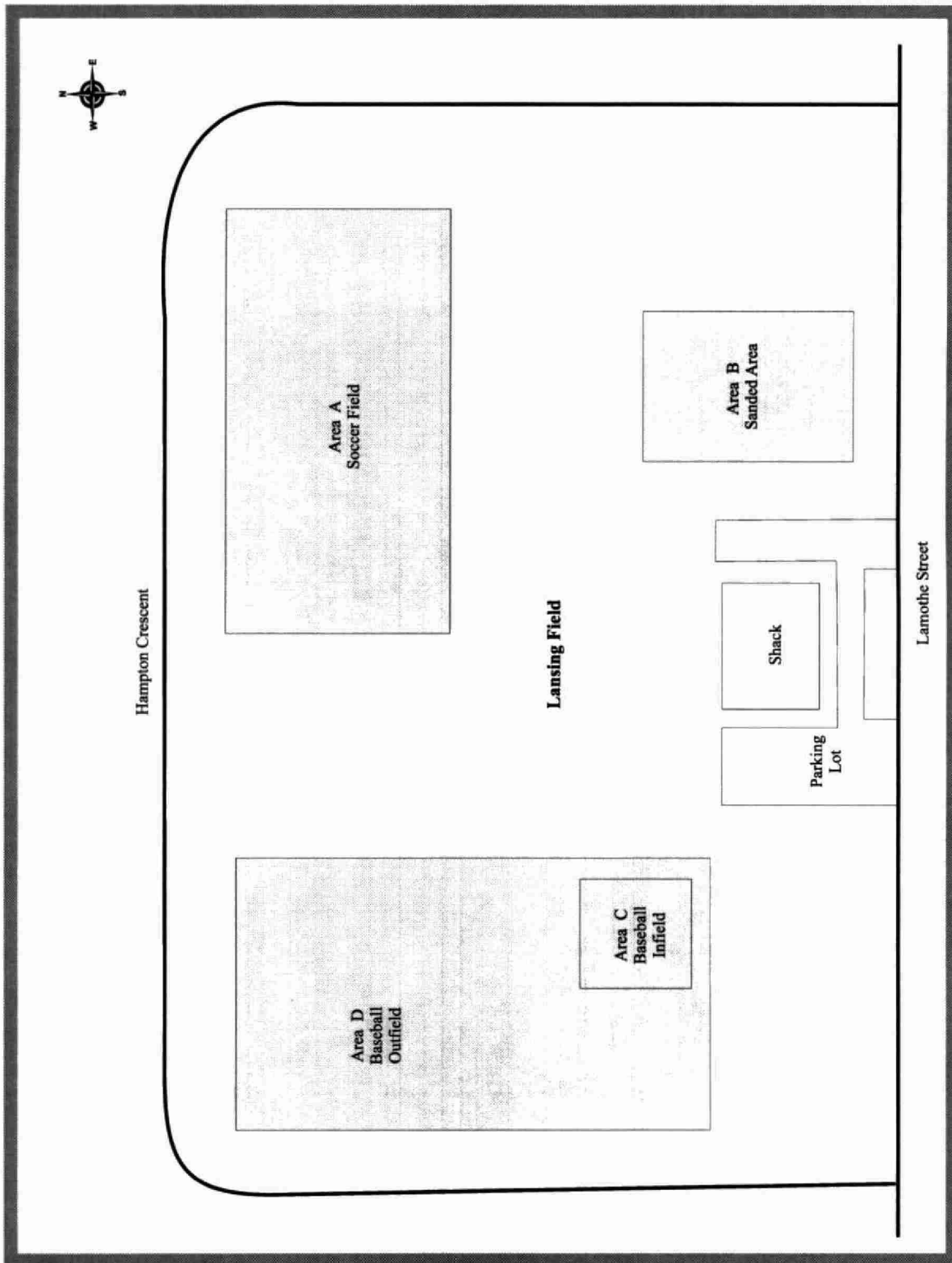




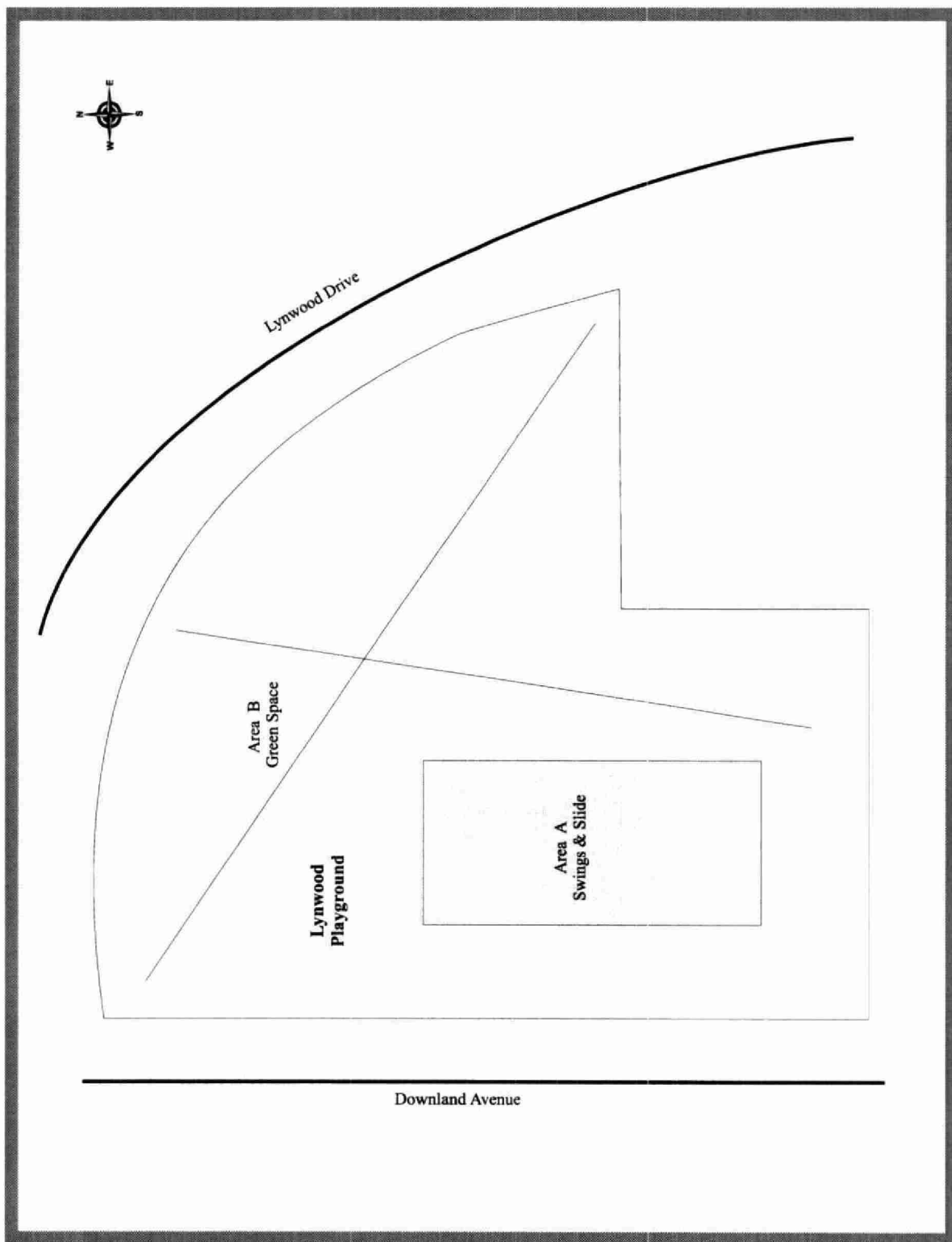
Map C5.19.4: Downe Playground, Sudbury New - 2001.



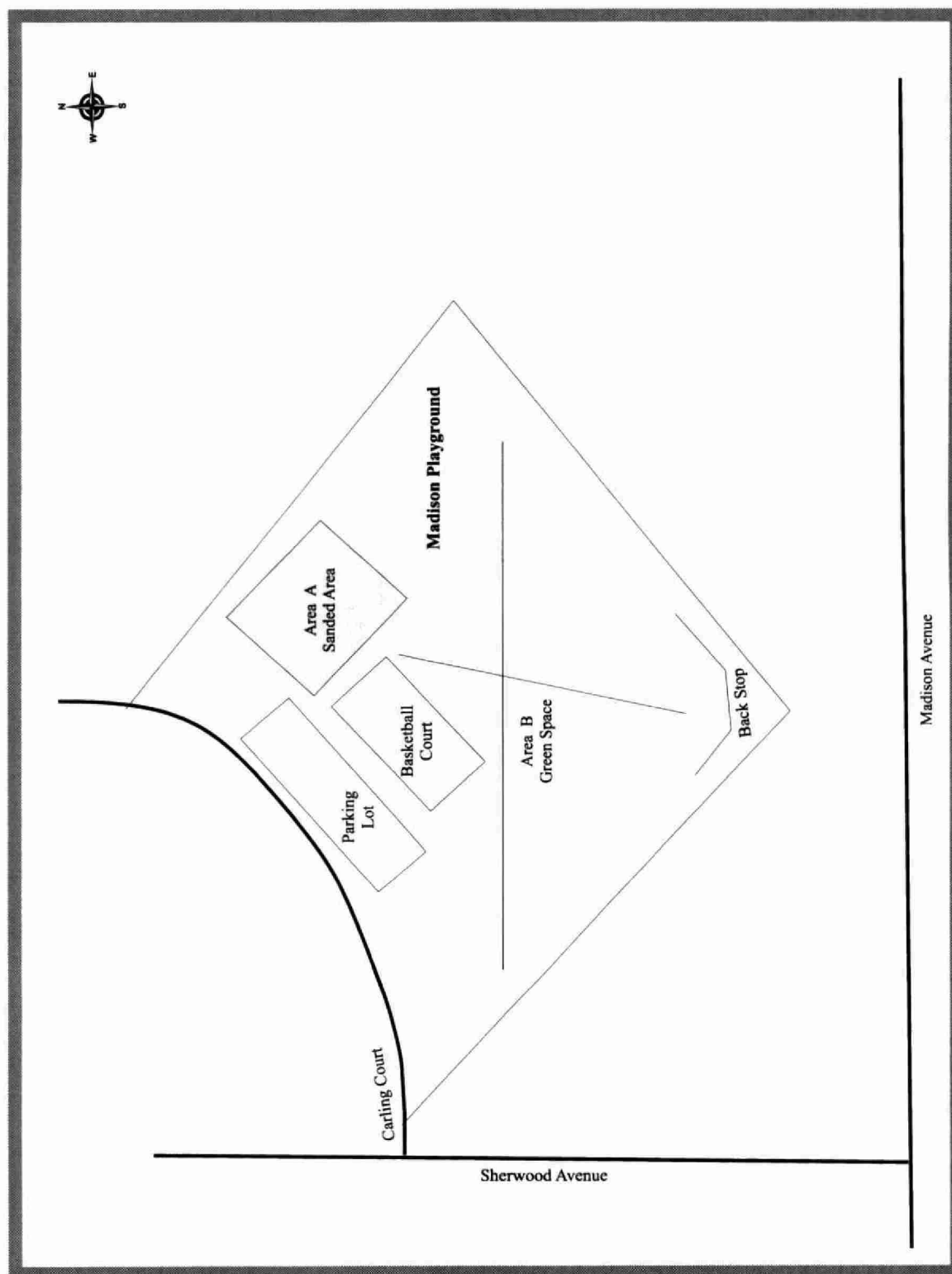
Map C5.19.5: Grandview Park, Sudbury New - 2001.



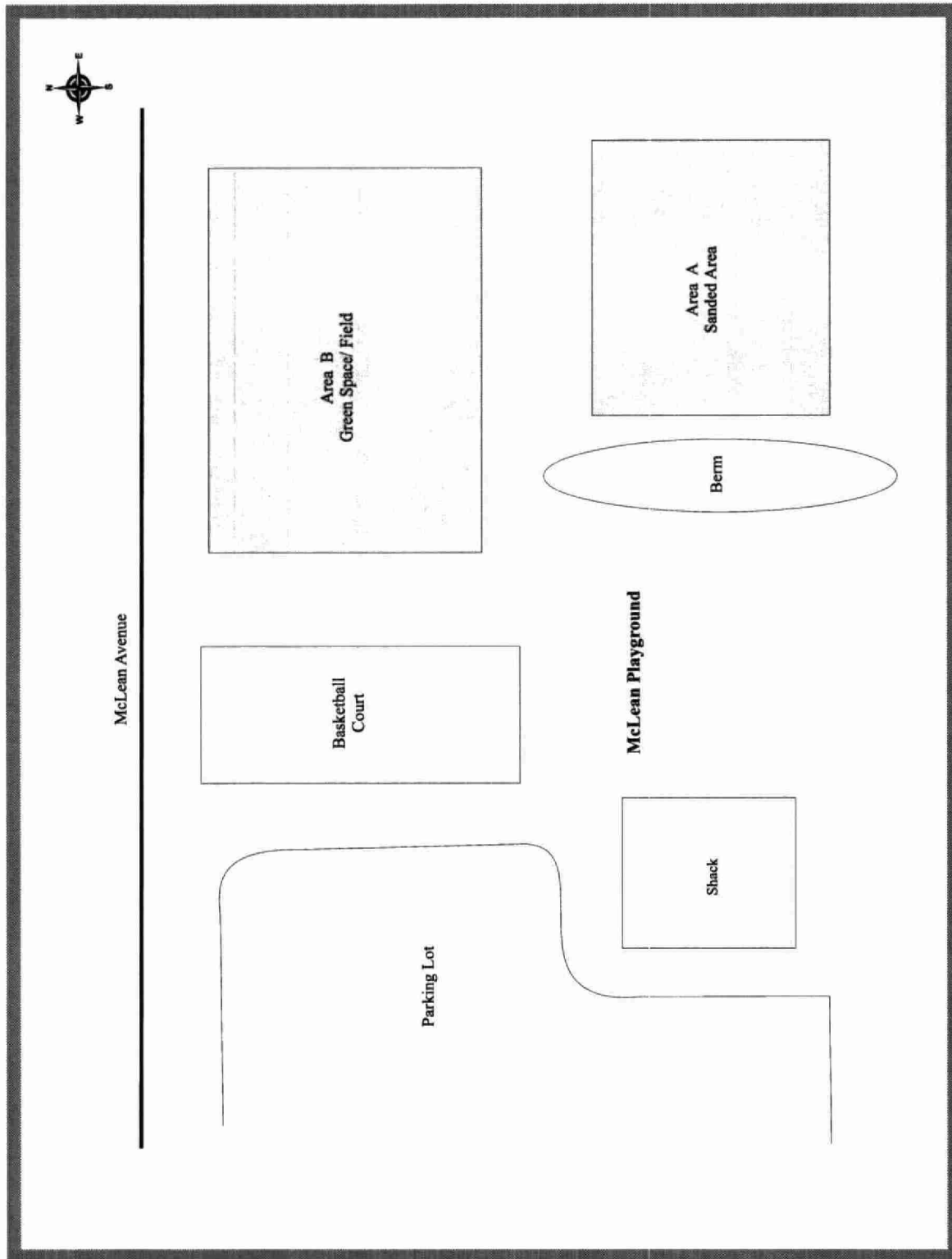
Map C5.19.6: Lansing Field, Sudbury New - 2001.



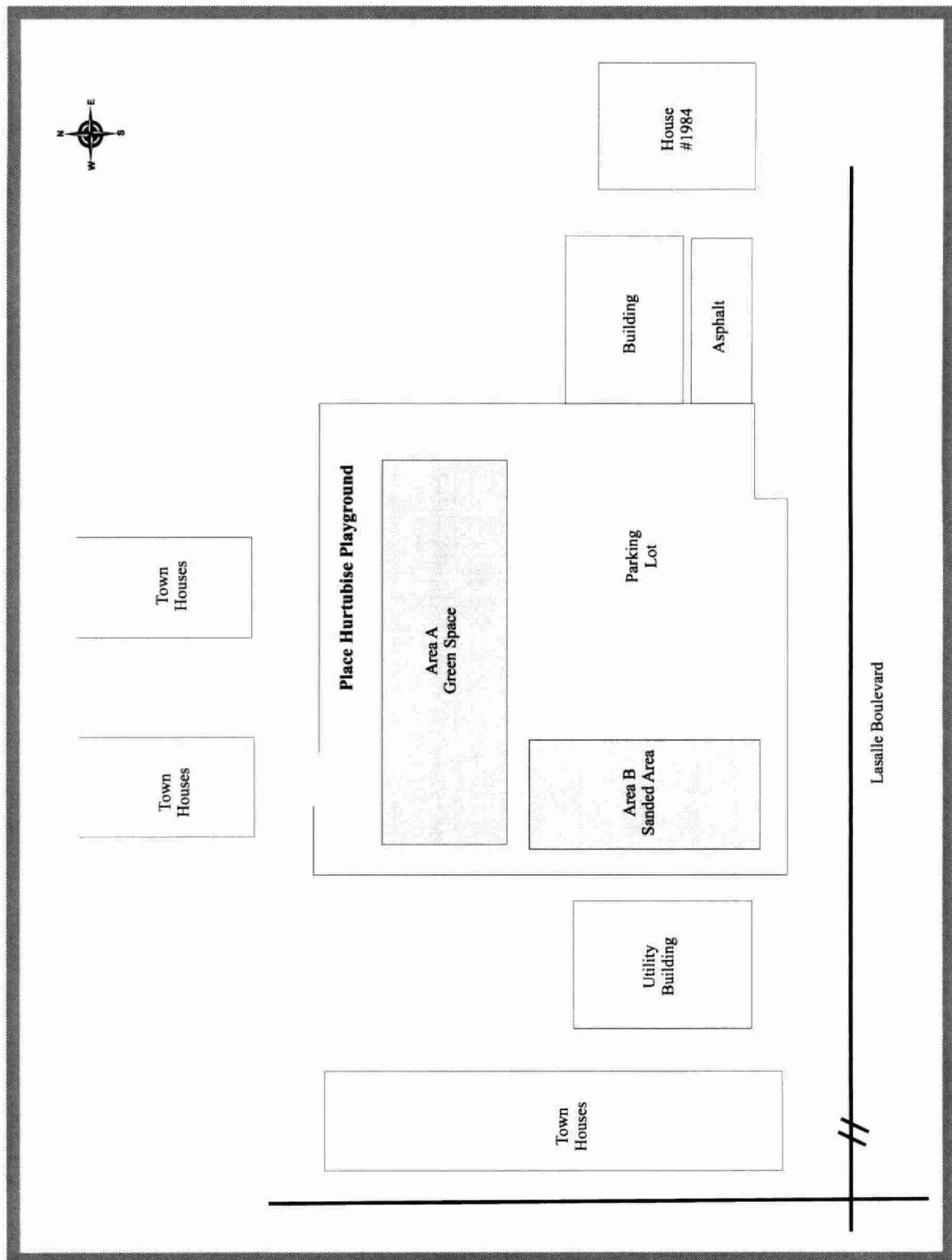
Map C5.19.7: Lynwood Playground, Sudbury New - 2001.



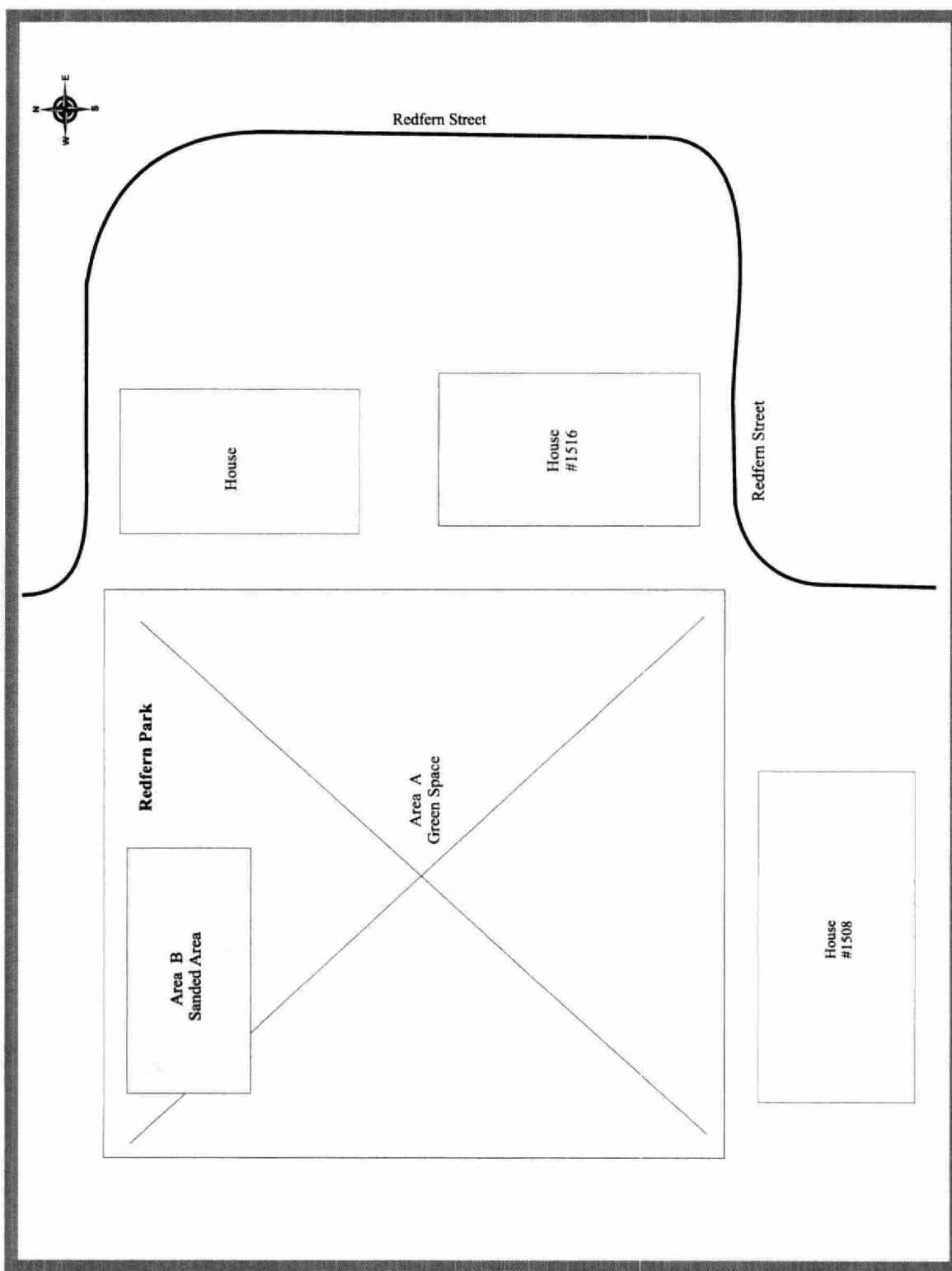
Map C5.19.8: Madison Playground, Sudbury New - 2001.



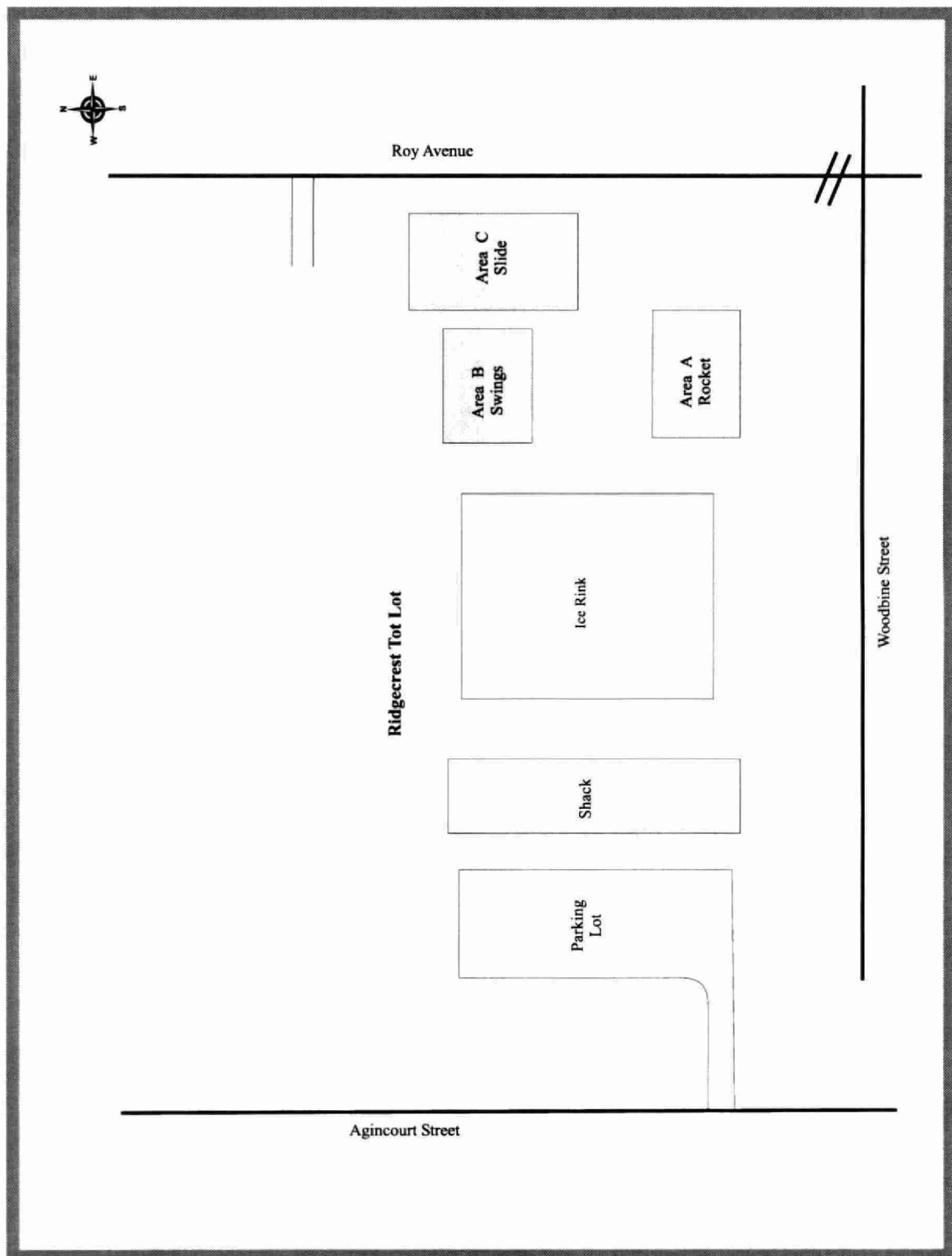
Map C5.19.9: McLean Playground, Sudbury New - 2001.



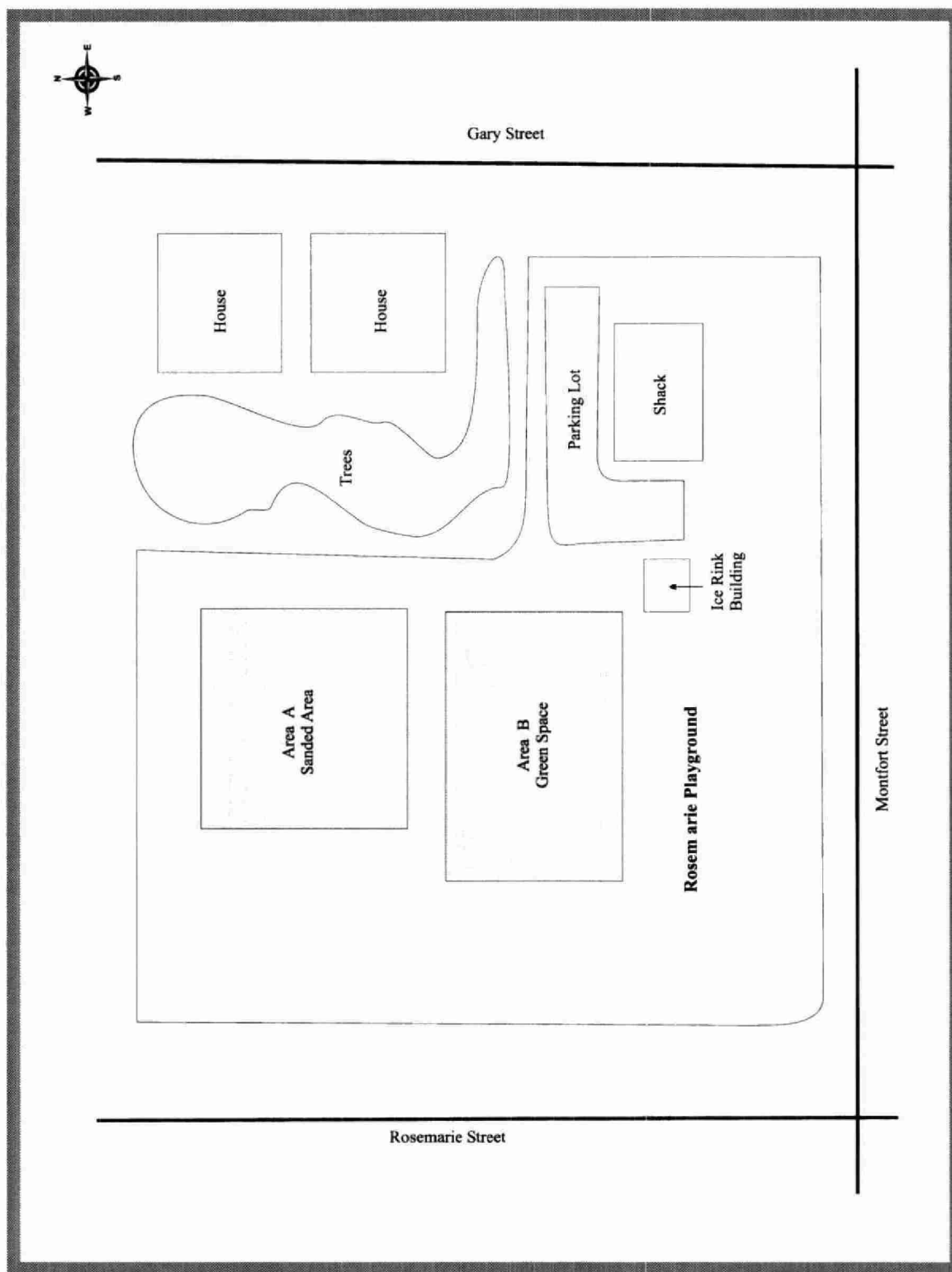
Map C5.19.10: Place Hurtubise Playground, Sudbury New - 2001.

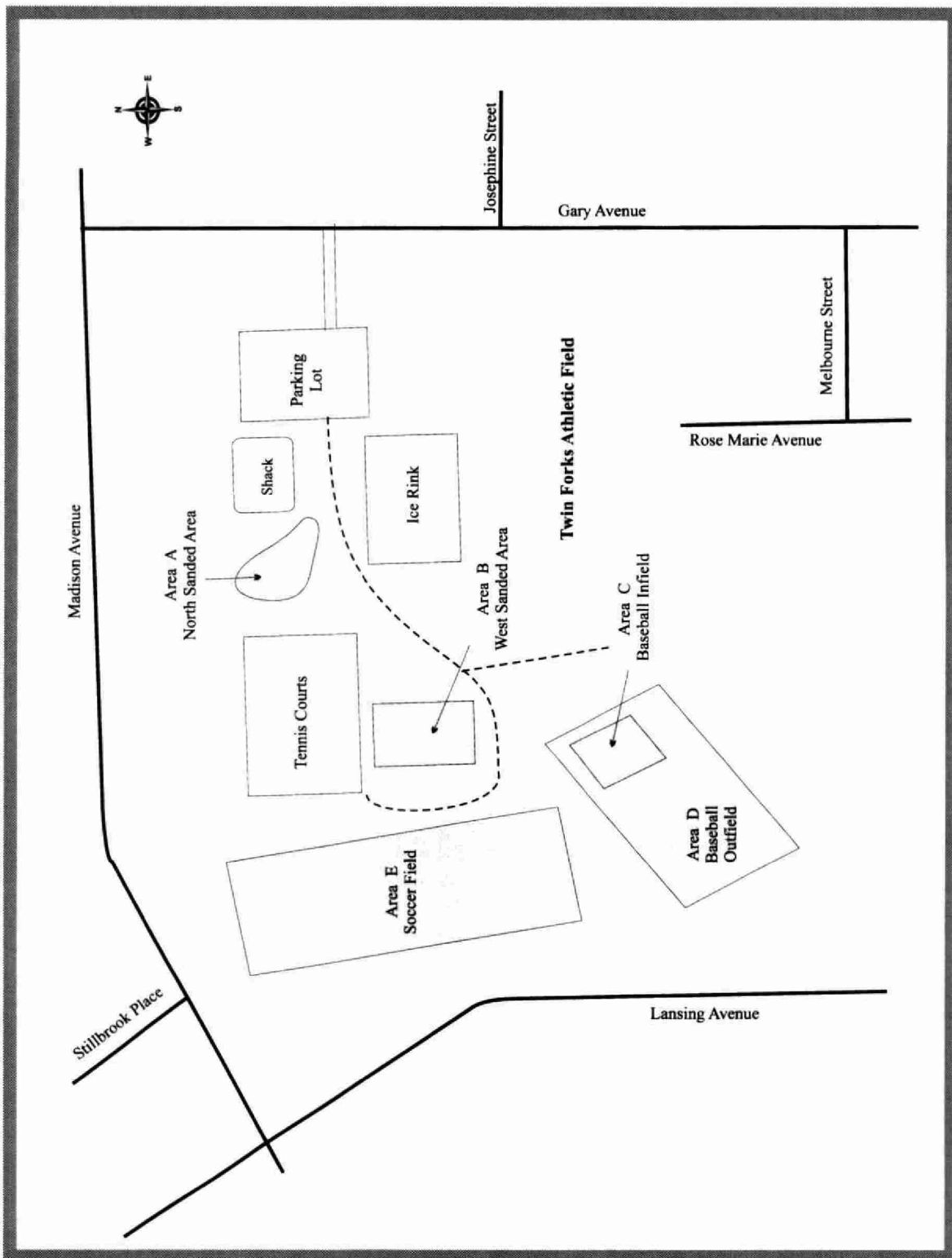


Map C5.19.11: Redfern Park, Sudbury New - 2001.

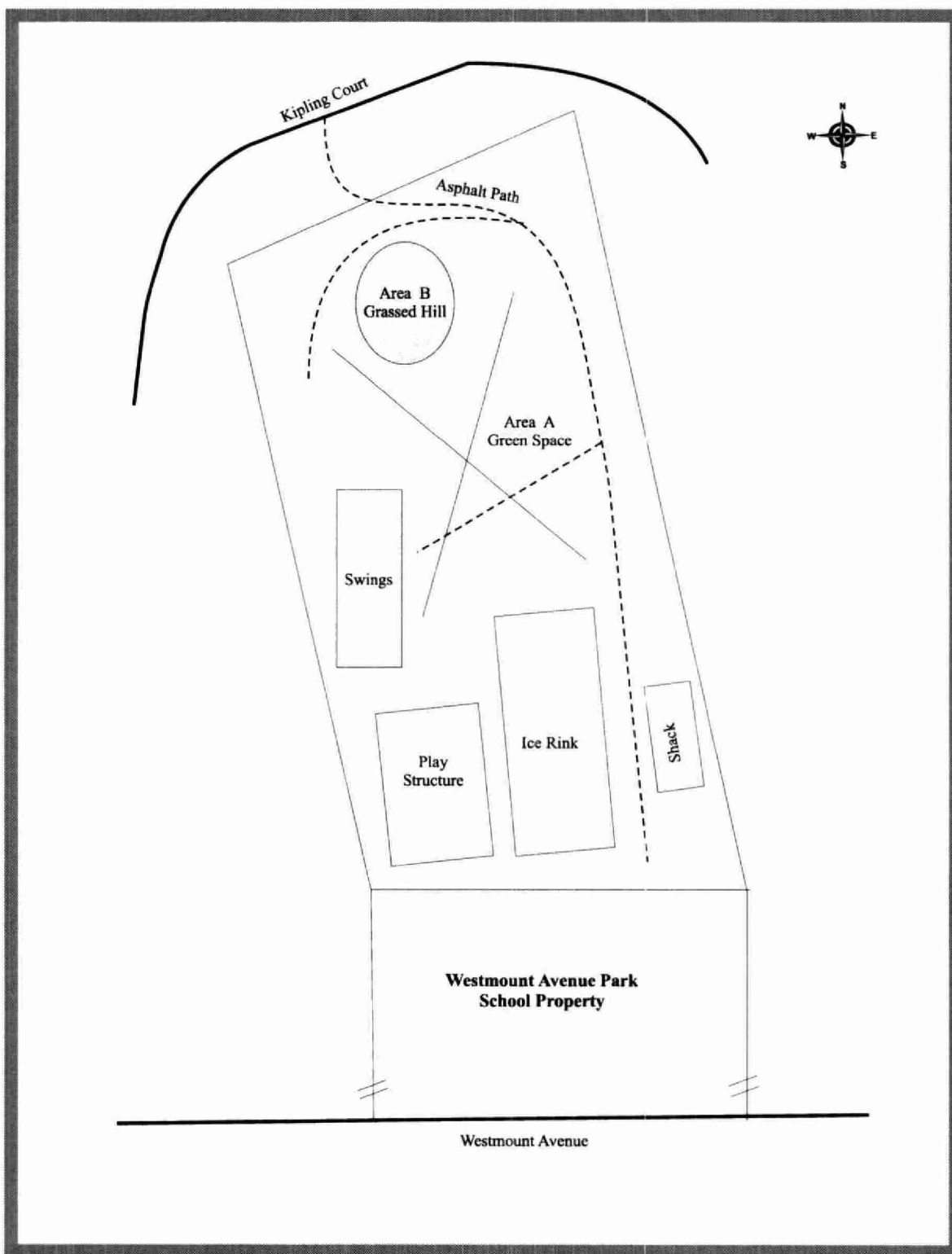


Map C5.19.12: Ridgecrest Tot Lot, Sudbury New - 2001.

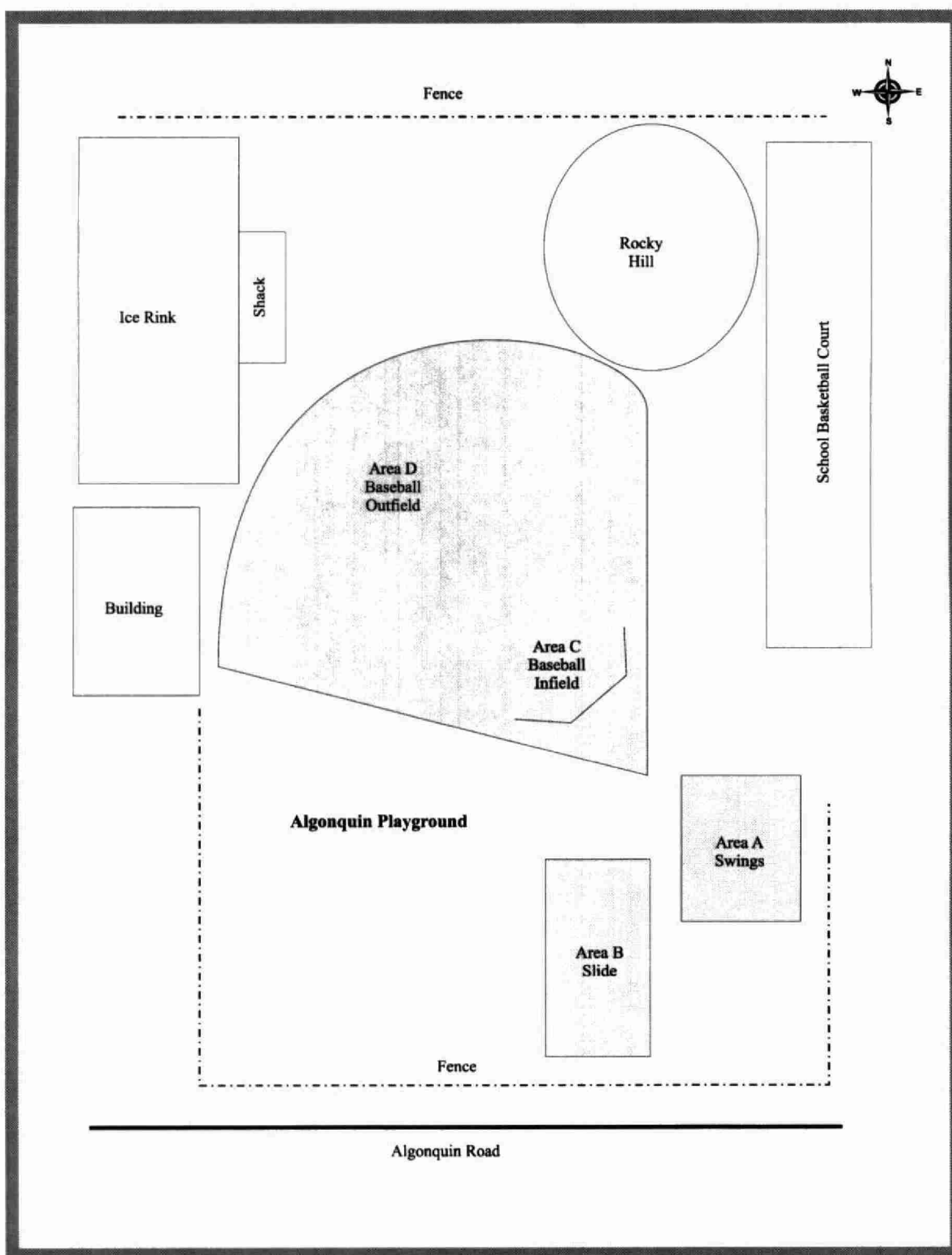


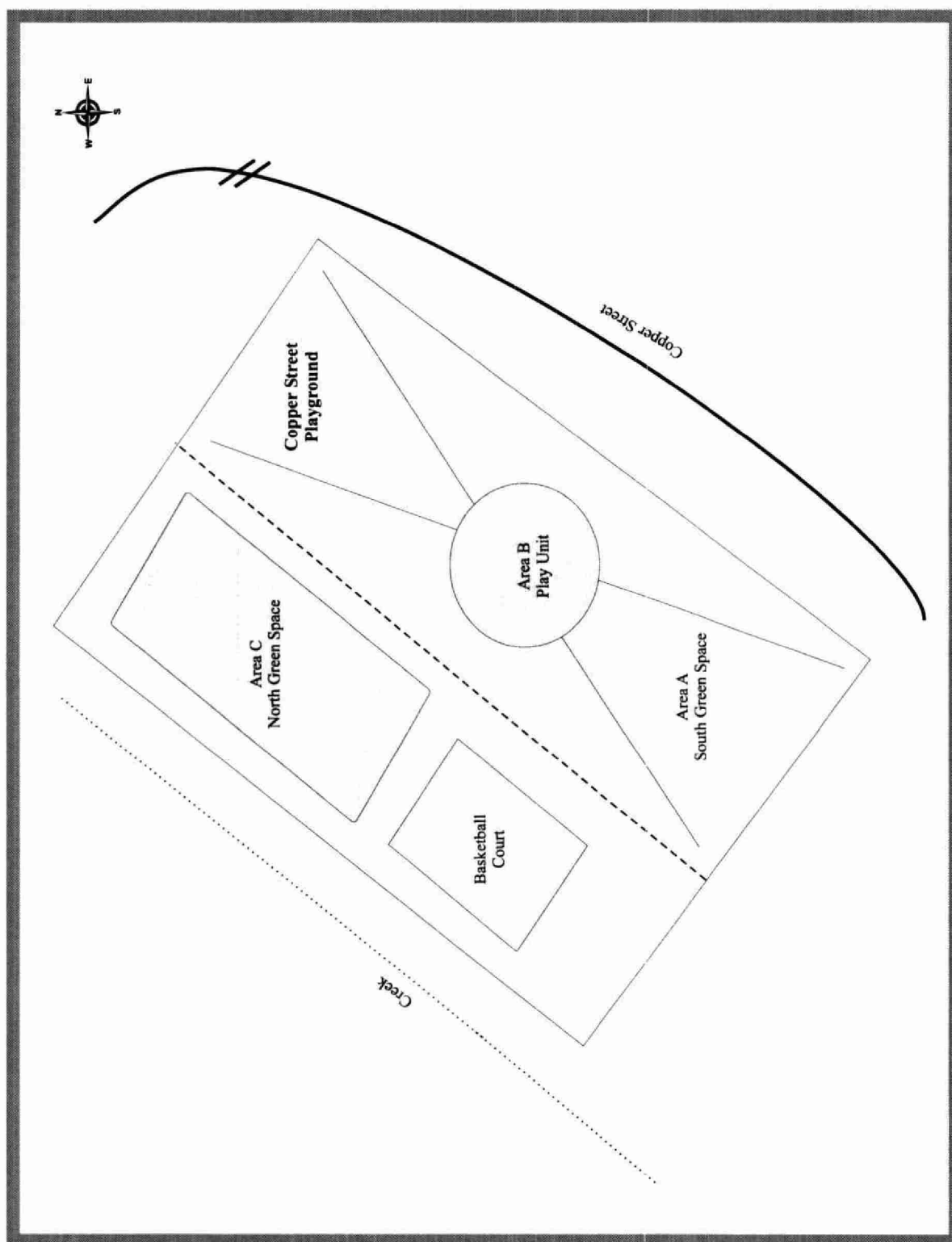


Map C5.19.14: Twin Forks Athletic Field, Sudbury New - 2001.

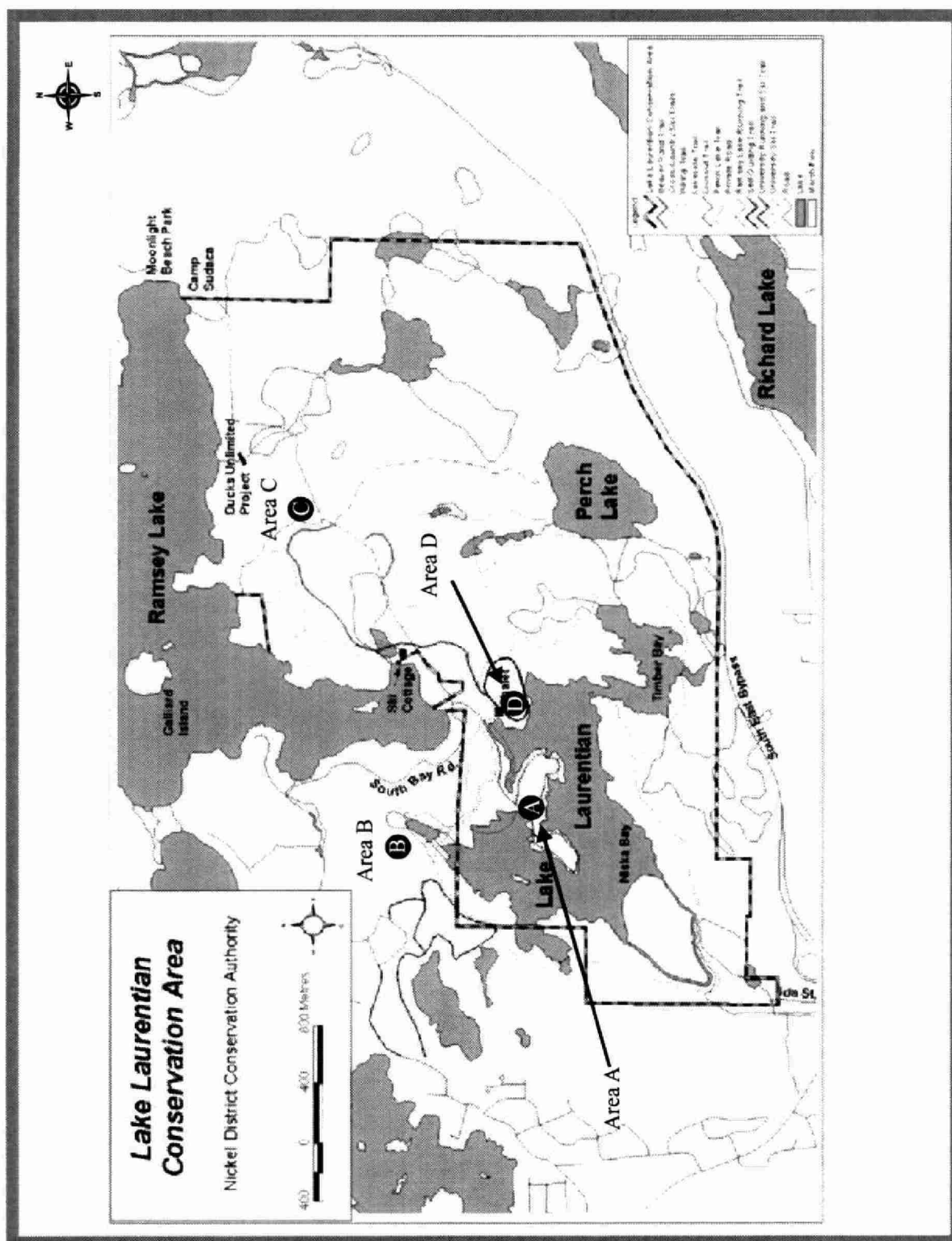


Map C5.19.15: Westmount Playground, Sudbury New - 2001.

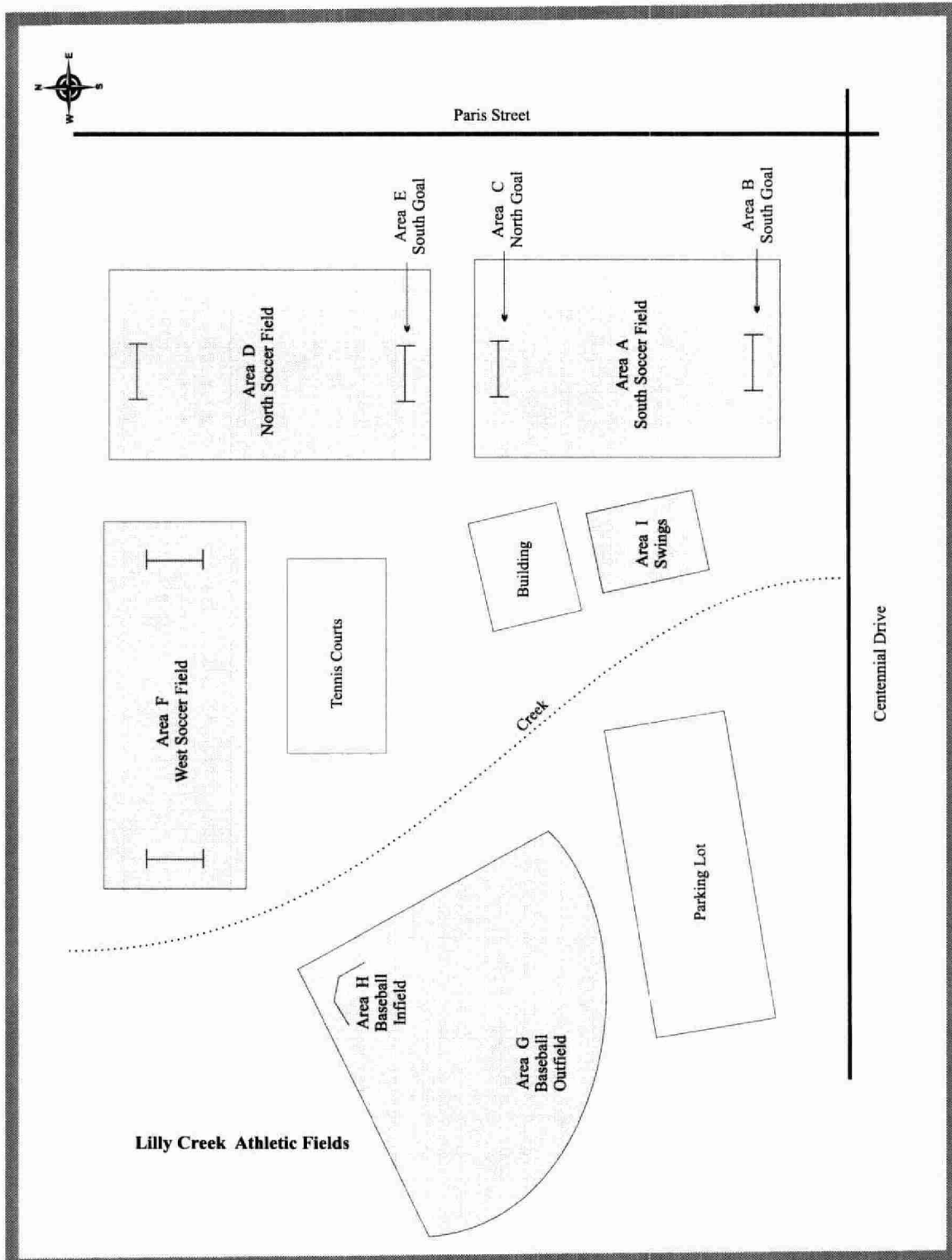
5.20 Sudbury South Park Maps**Map C5.20.1: Algonquin Playground, Sudbury South - 2001.**



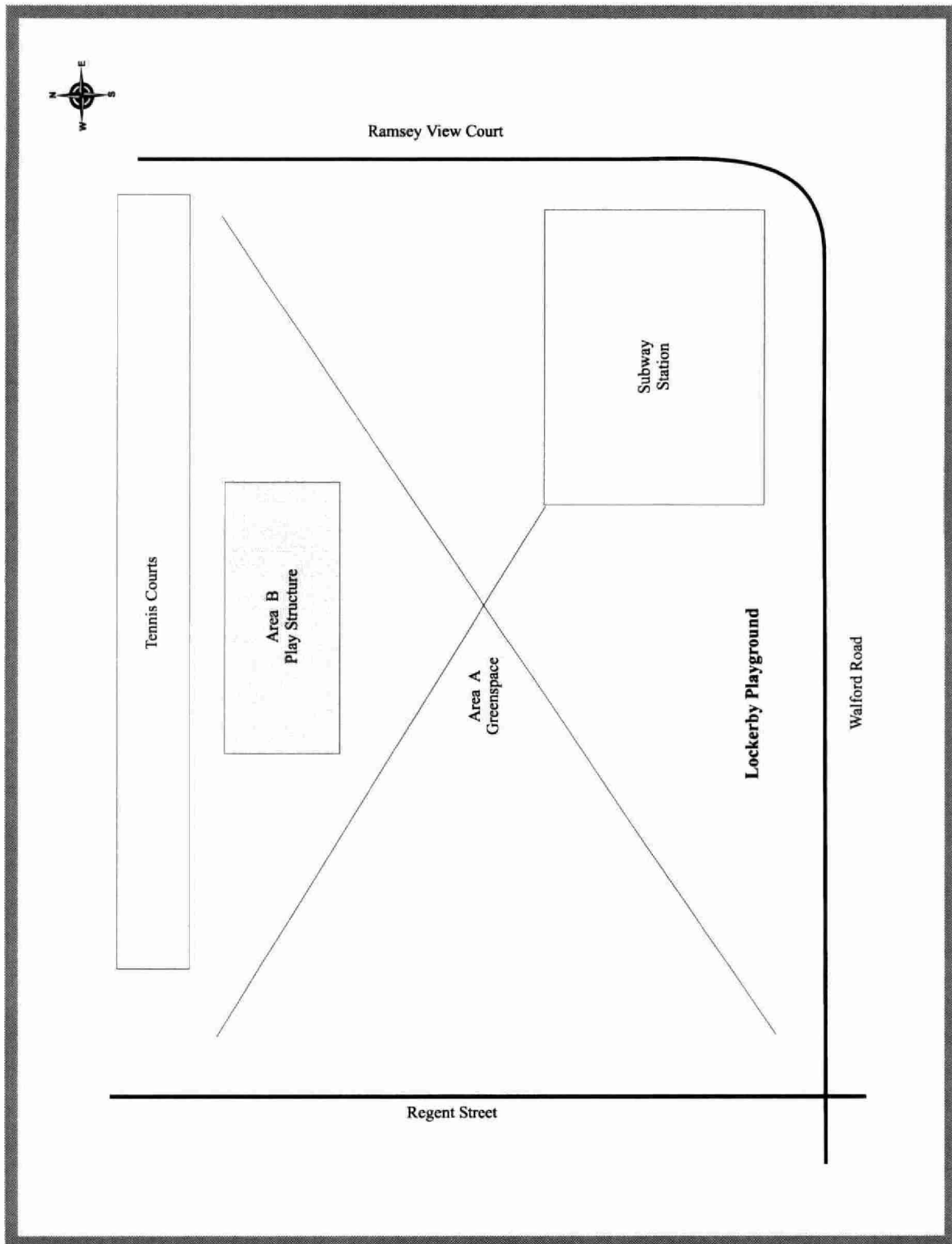
Map C5.20.2: Copper Street Playground, Sudbury South - 2001.



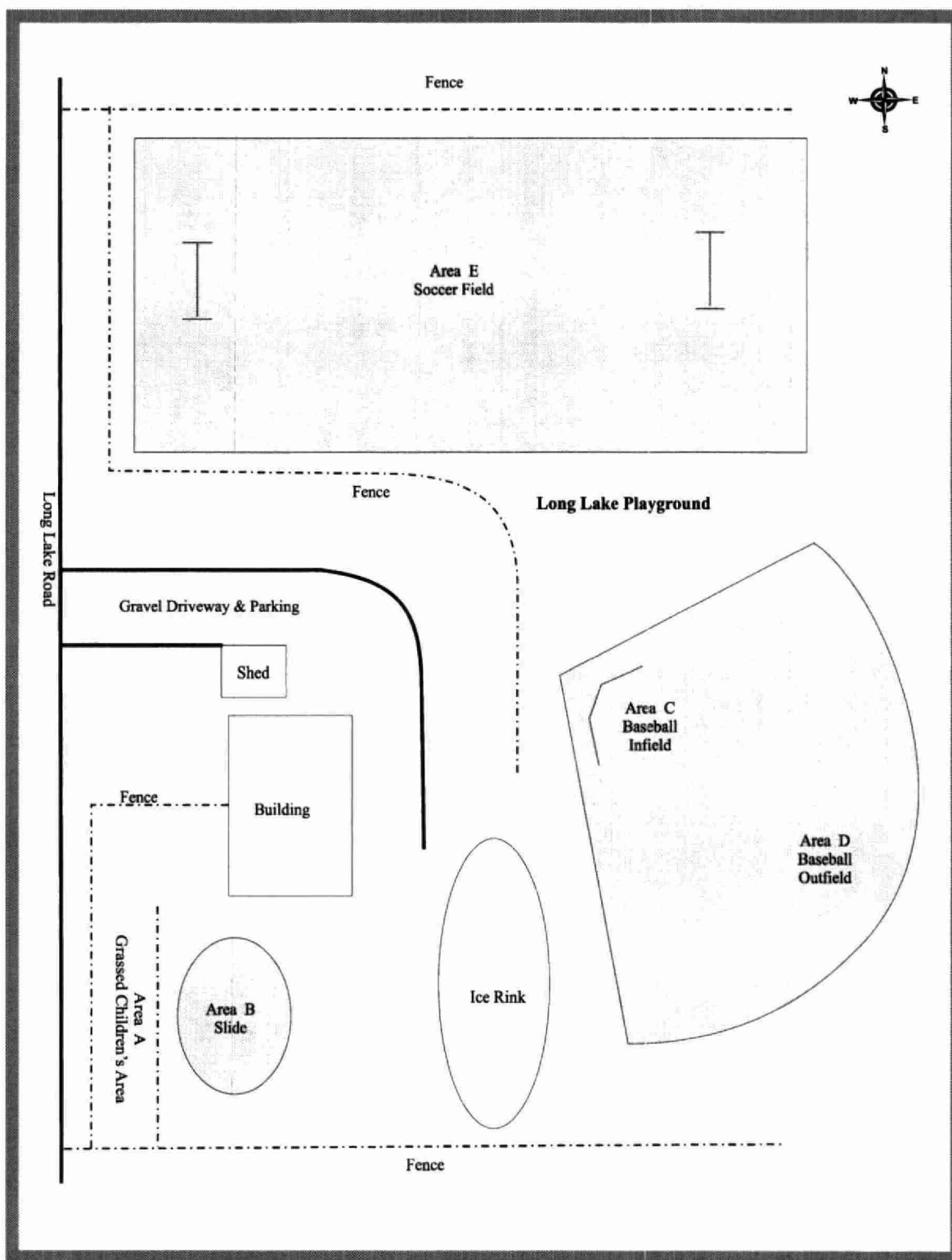
Map C5.20.3: Lake Laurentian Conservation Area, Sudbury South - 2001



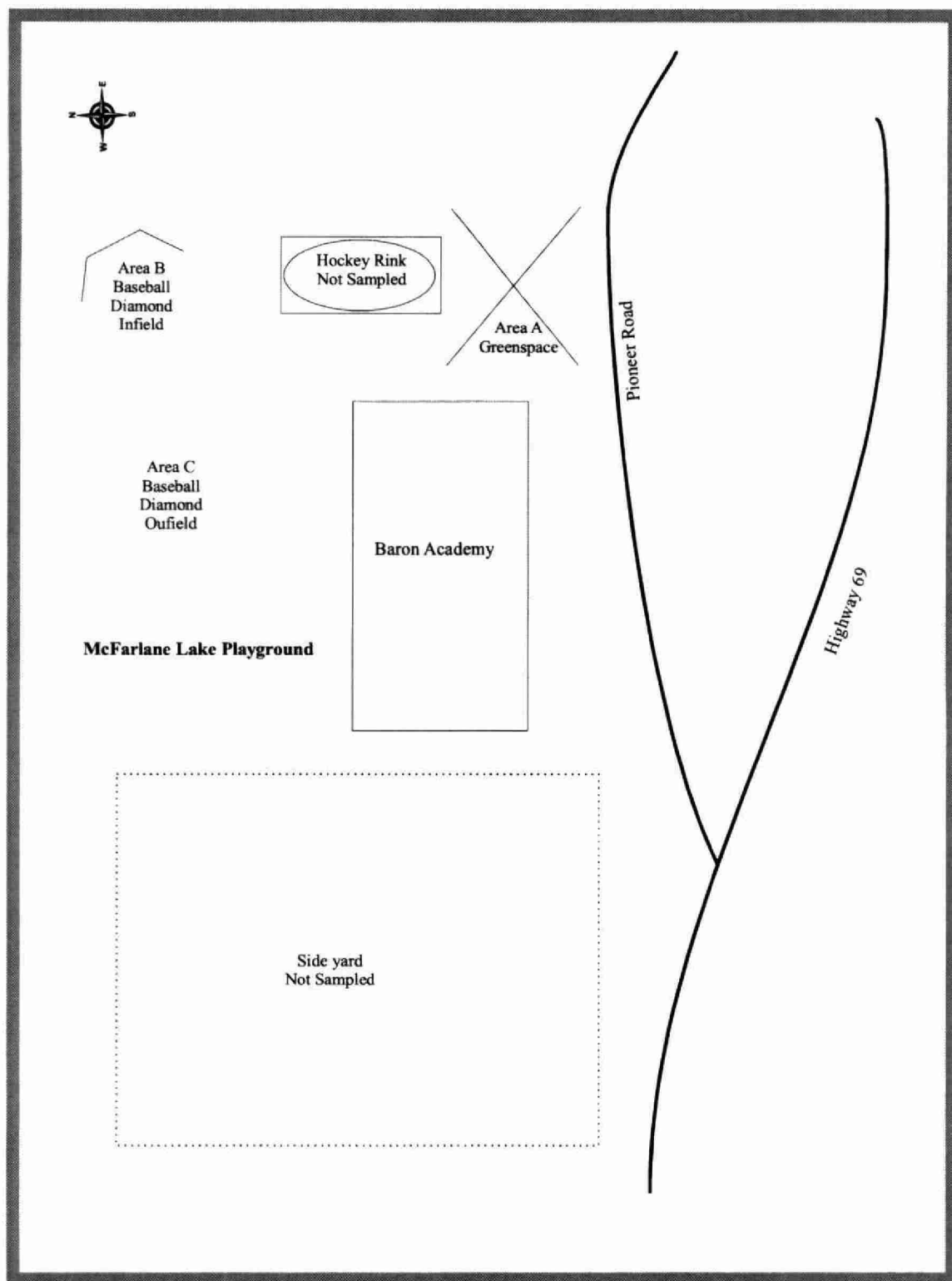
Map C5.20.4: Lilly Creek Athletic Field, Sudbury South - 2001.



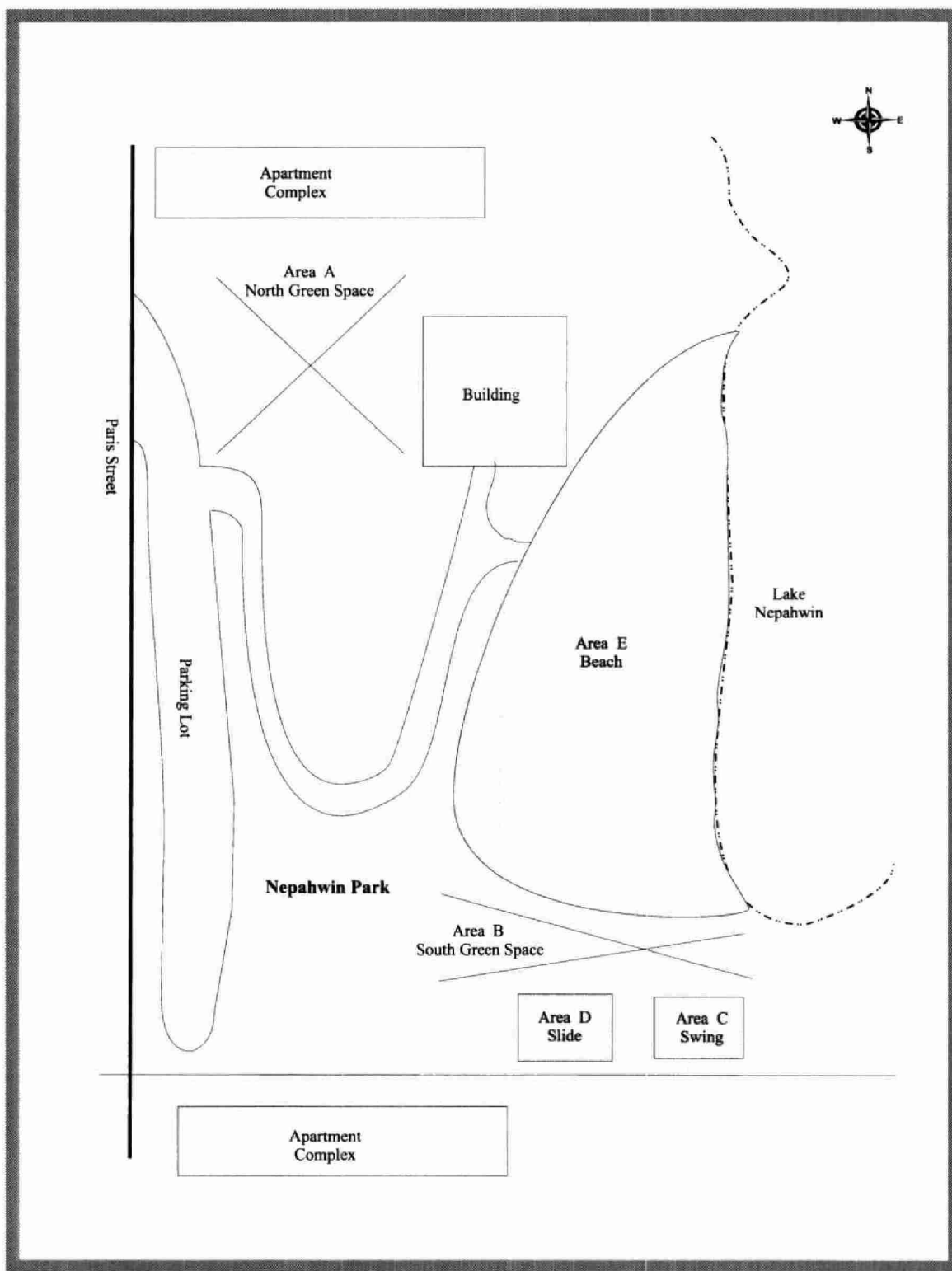
Map C5.20.5: Lockerby Playground, Sudbury South - 2001.



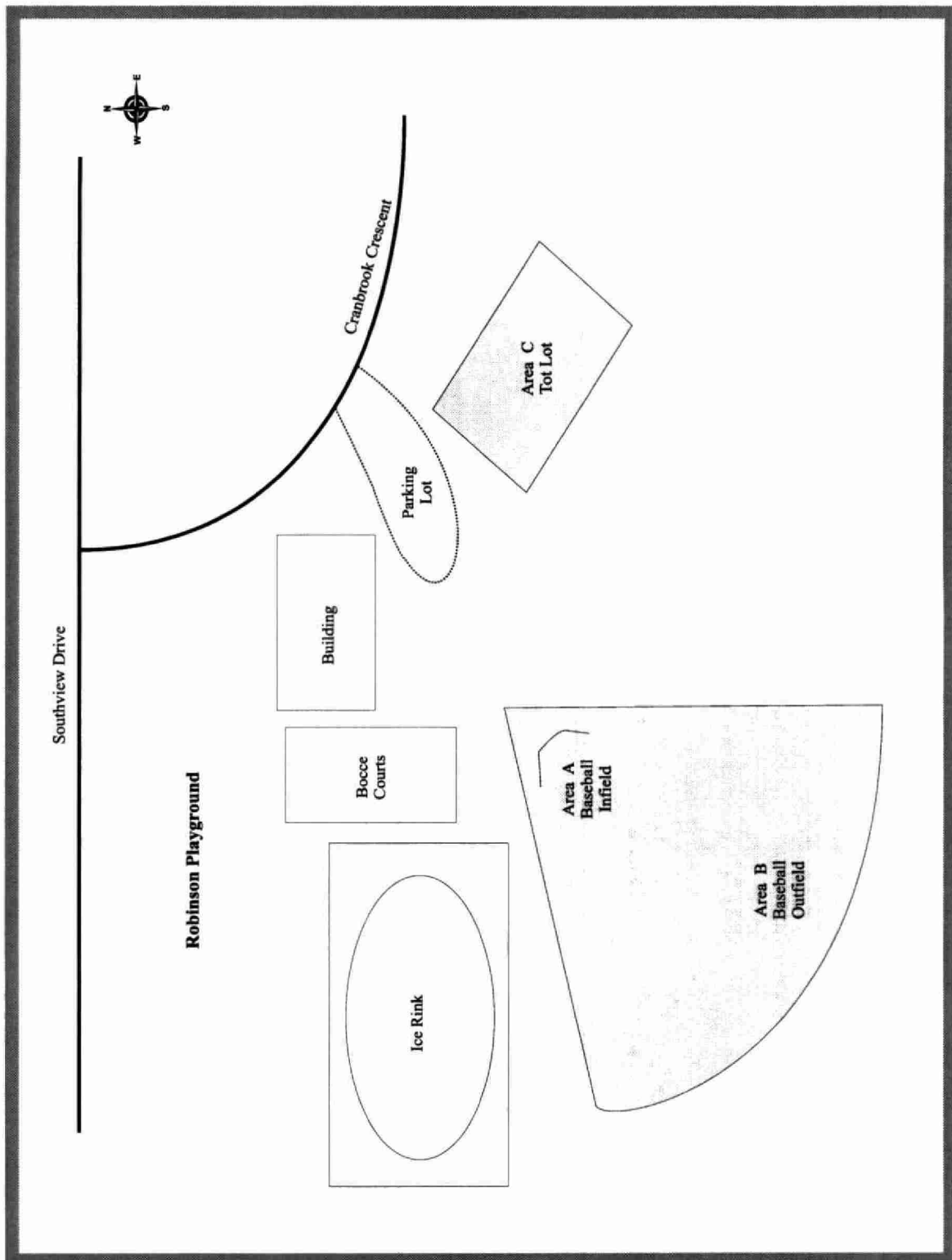
Map C5.20.6: Long Lake Playground, Sudbury South - 2001.



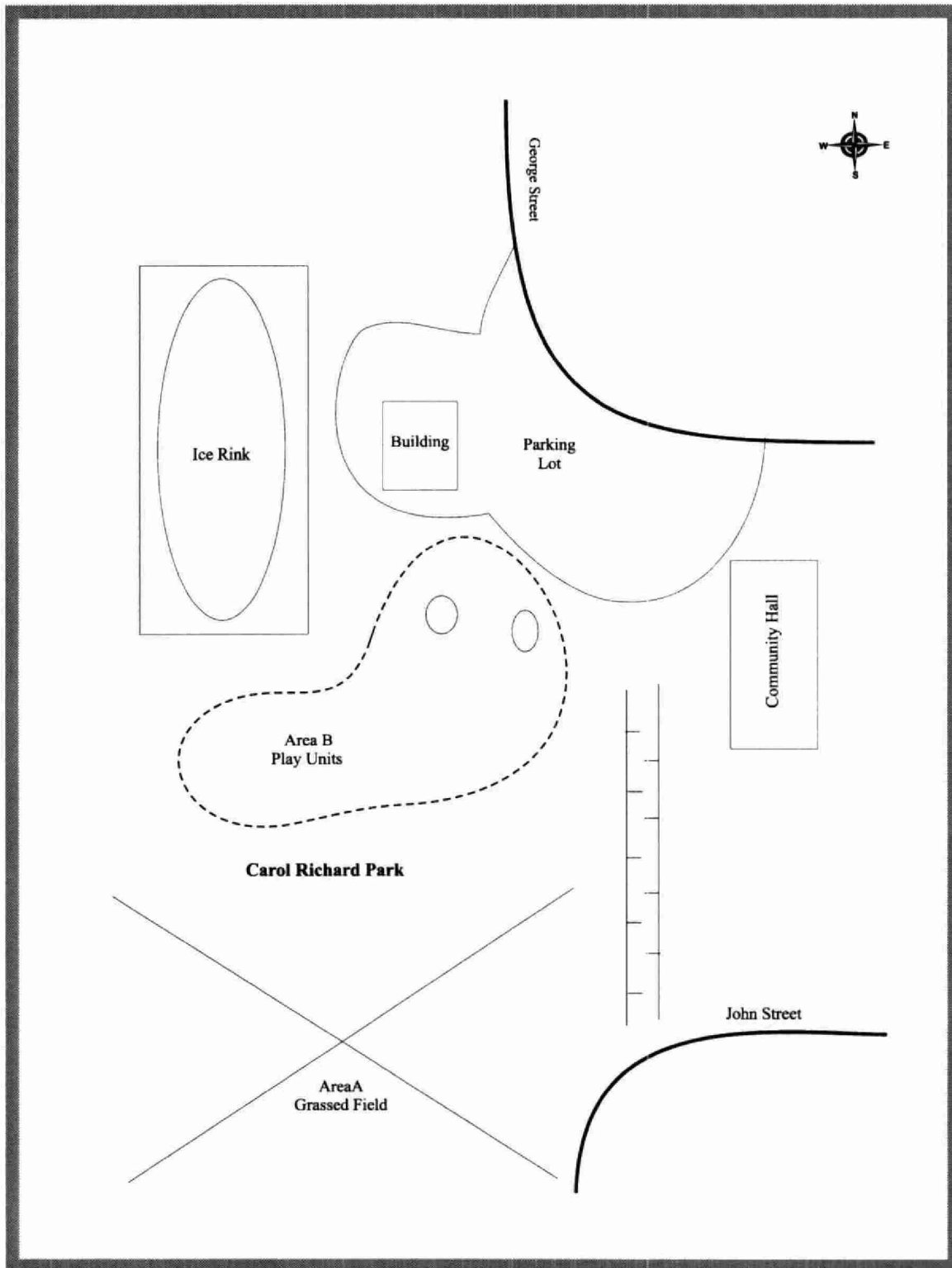
Map C5.20.7: McFarlane Lake Playground, Sudbury South - 2001

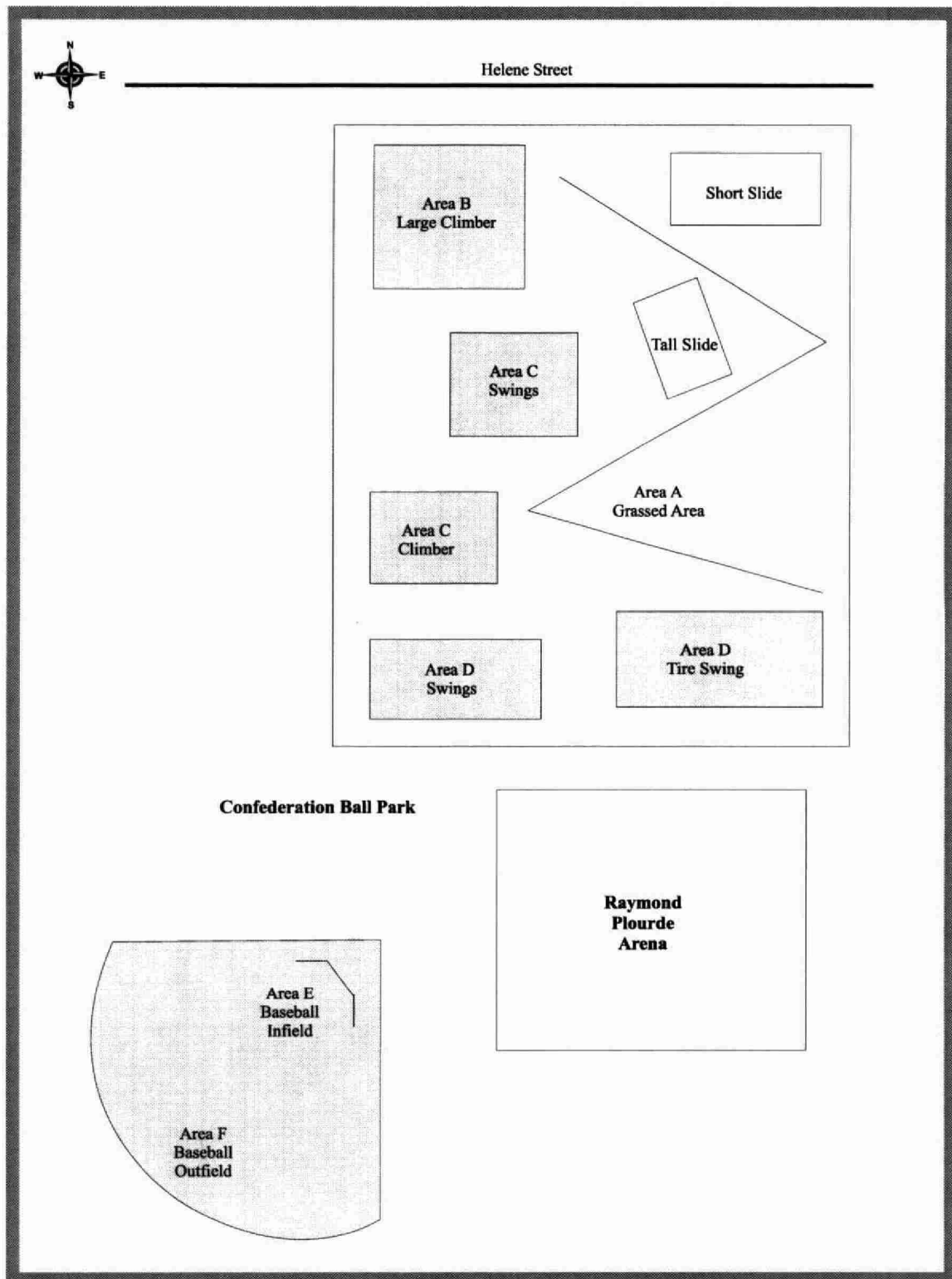


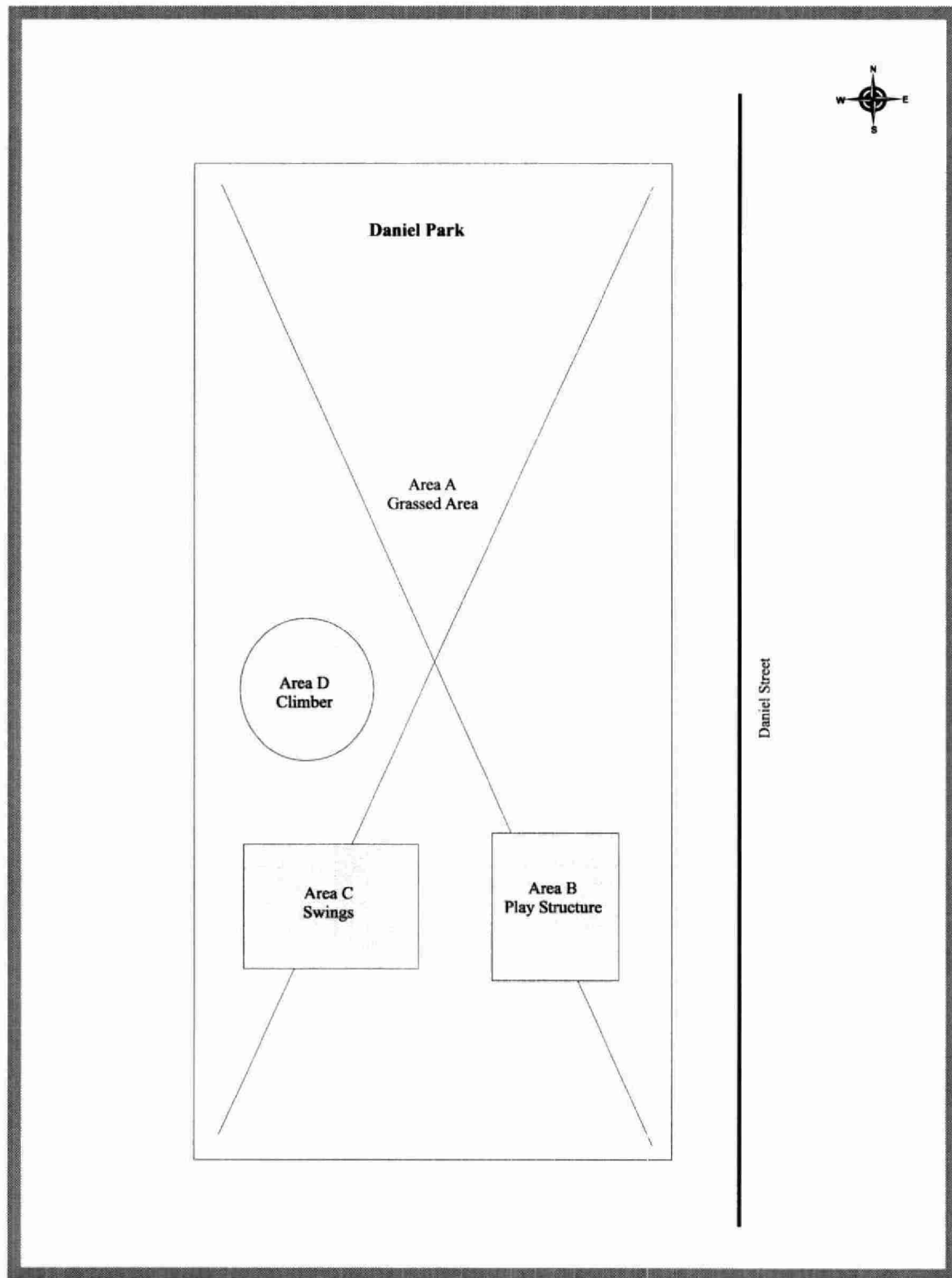
Map C5.20.8: Nepahwin Park, Sudbury South - 2001.



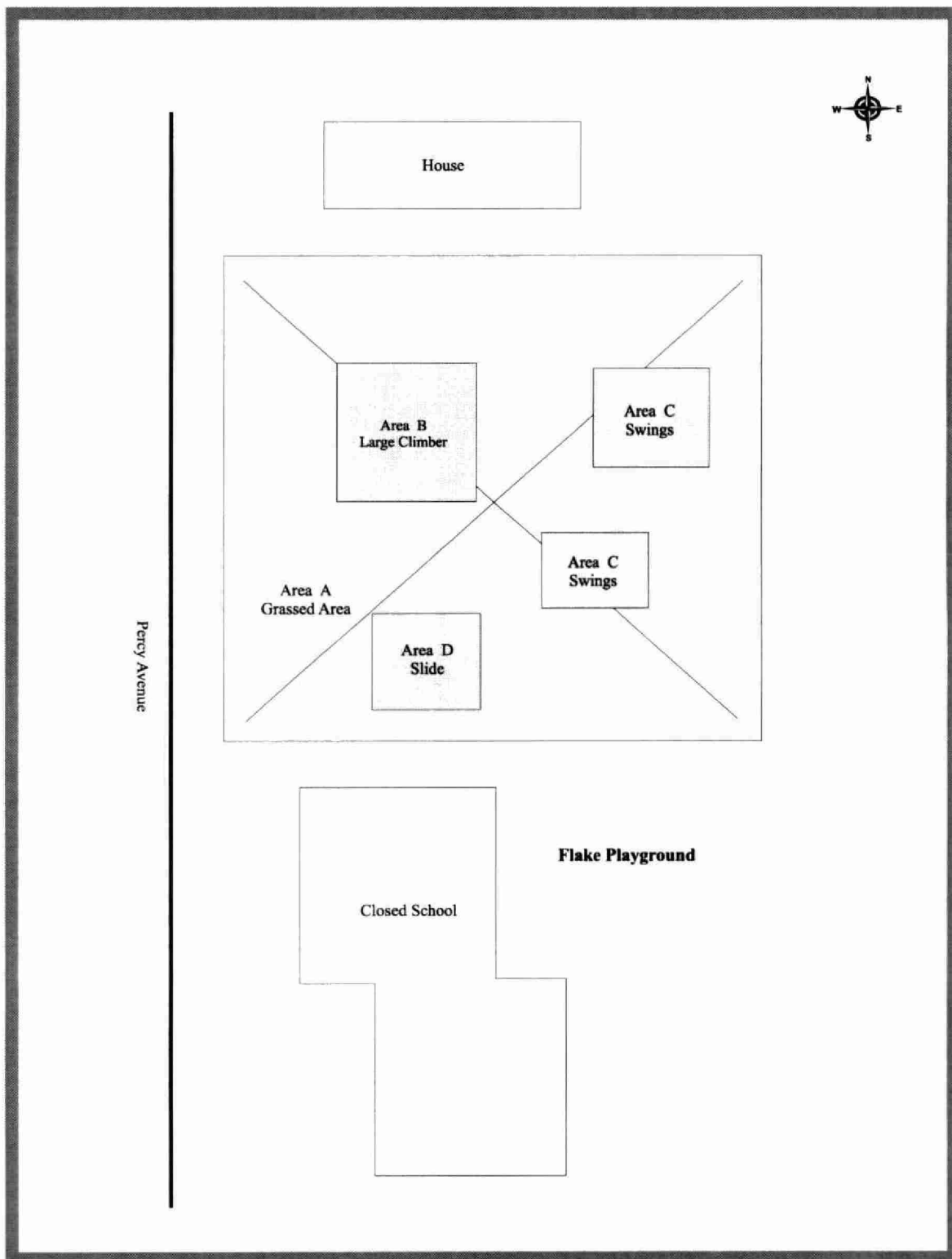
Map C5.20.9: Robinson Playground, Sudbury South - 2001.

5.21 Val Caron Park Maps**Map C5.21.1: Carol Richard Playground, Val Caron - 2001.**

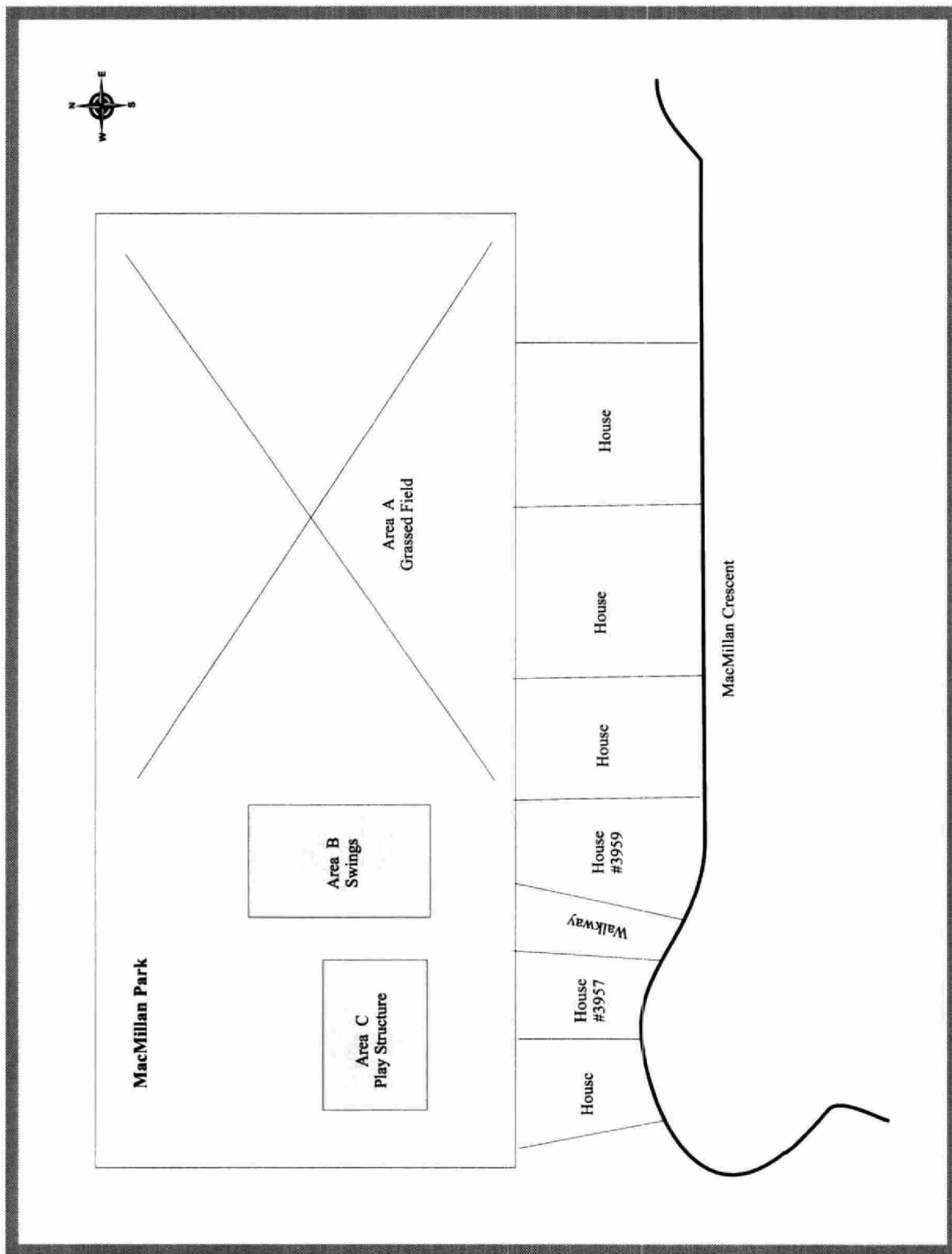




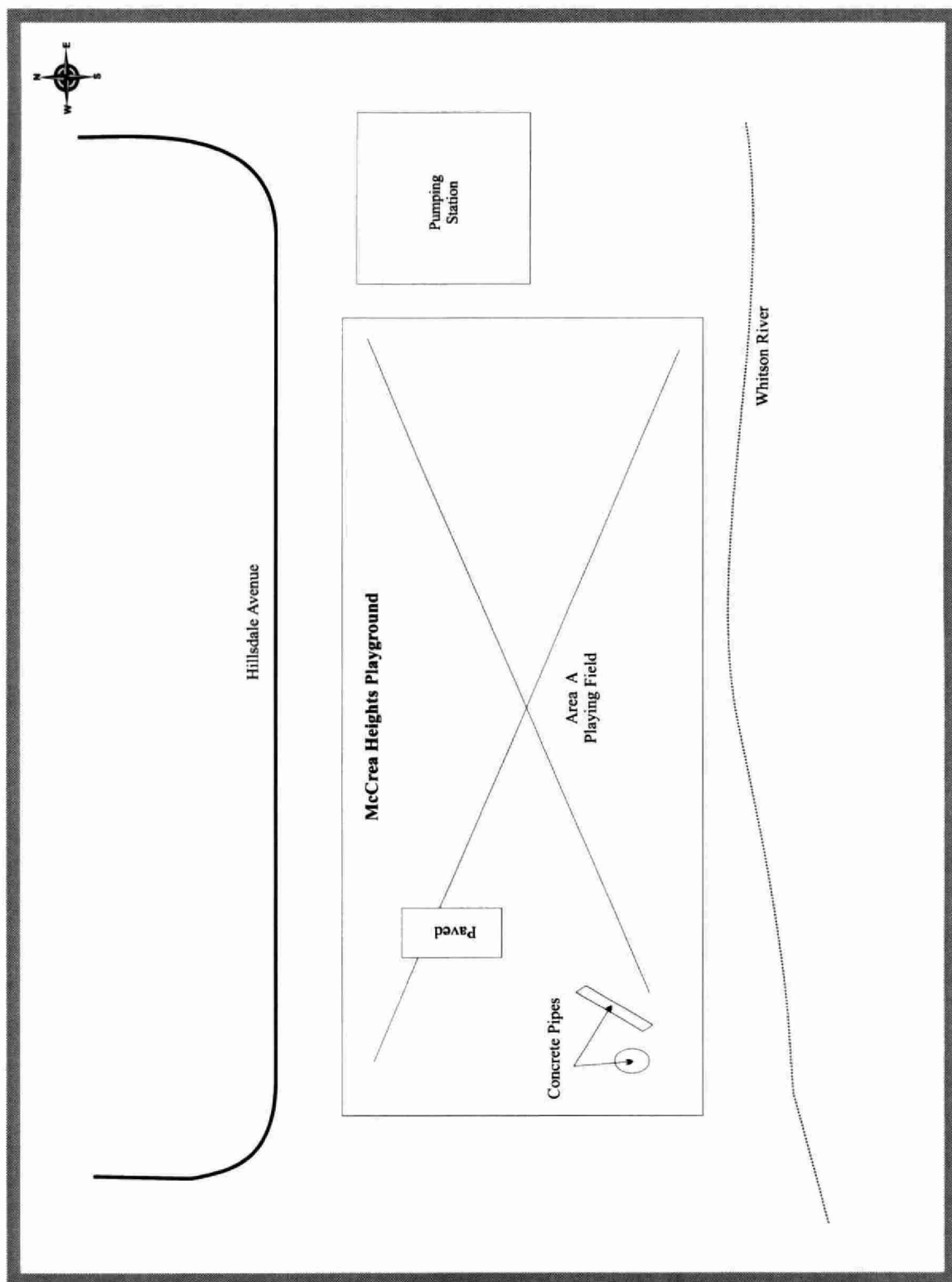
Map C5.21.3: Daniel Park, Val Caron - 2001.



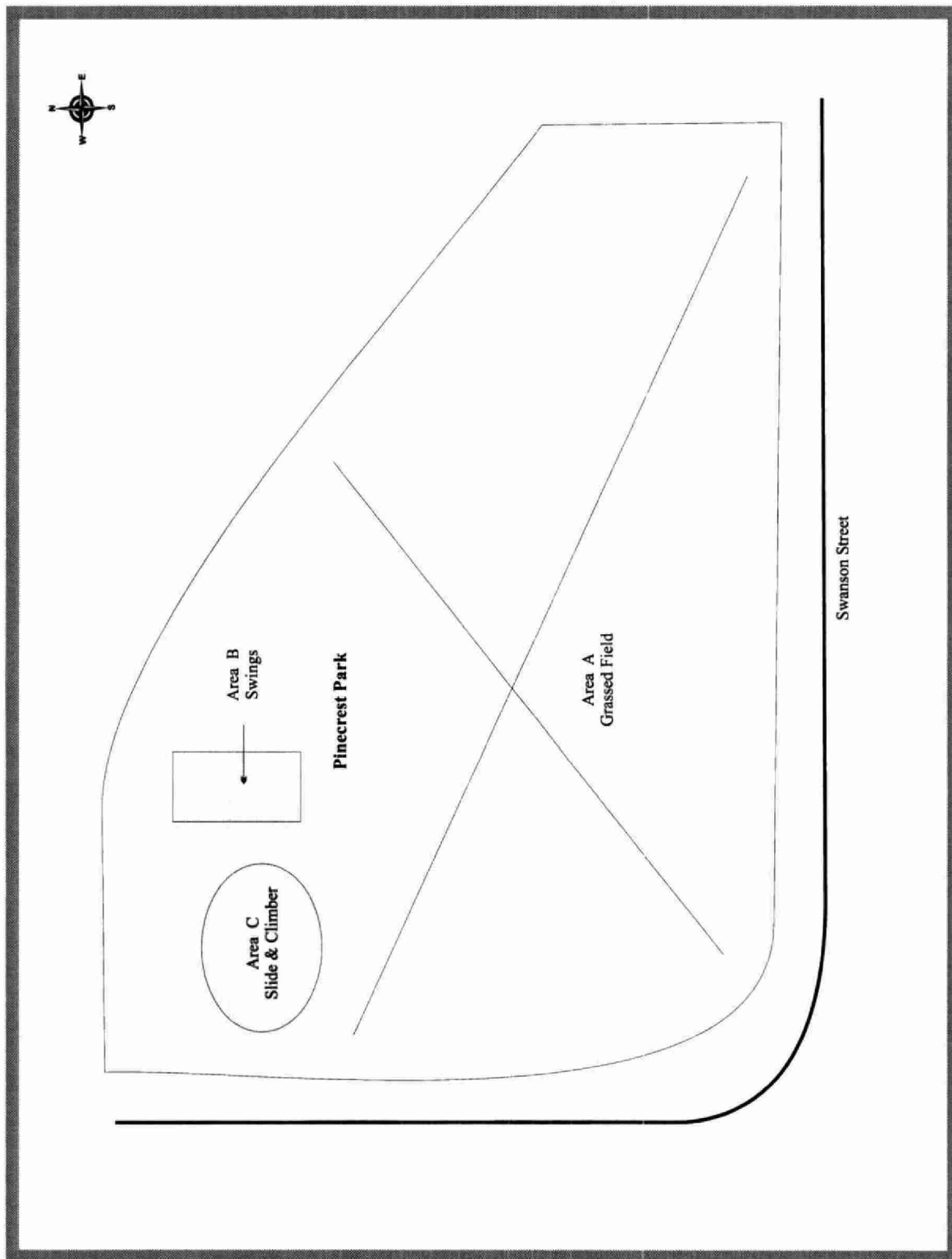
Map C5.21.4: Flake Playground, Val Caron - 2001.



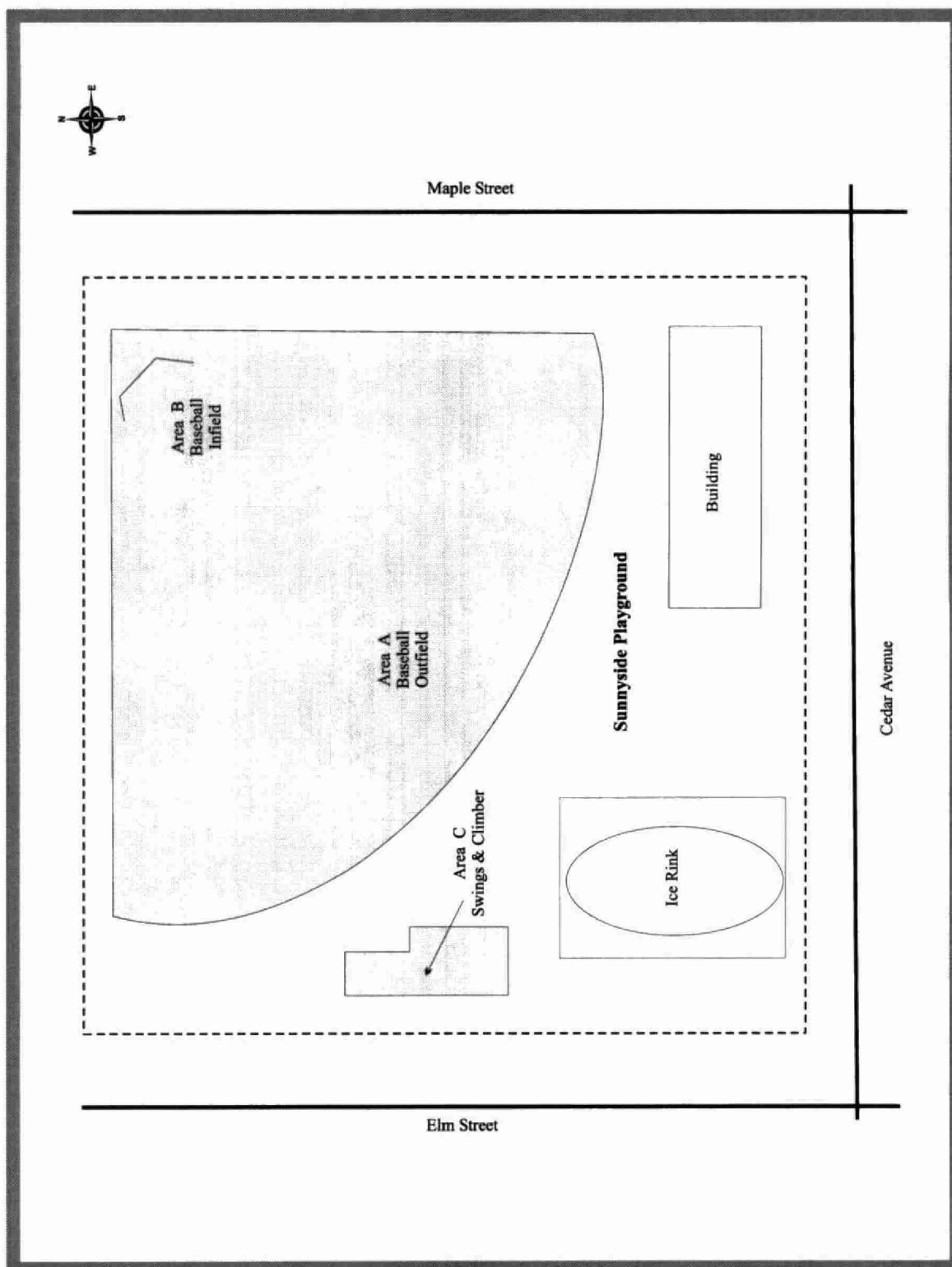
Map C5.21.5: MacMillan Park, Val Caron - 2001.



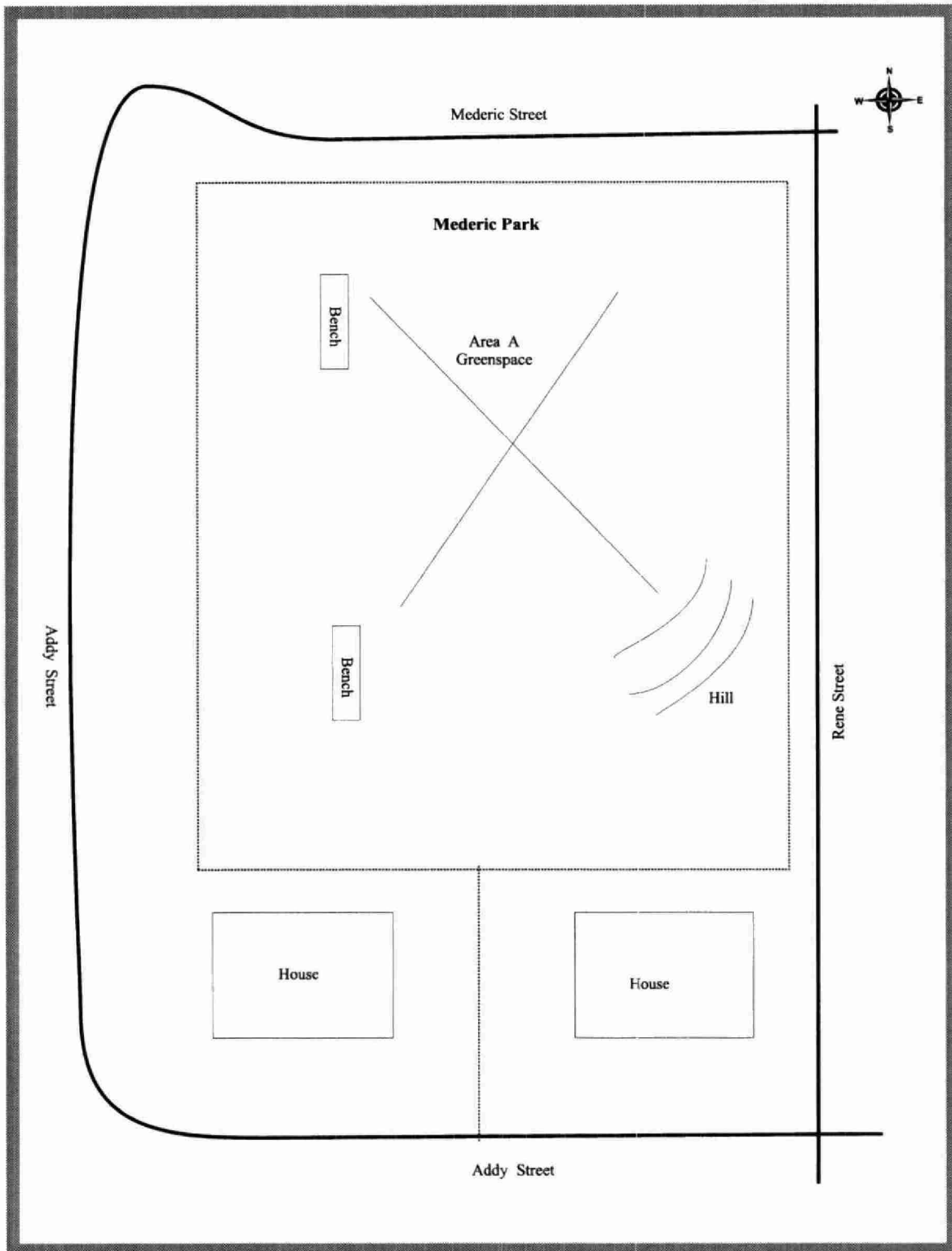
Map C5.21.6: McCrea Heights Playground (Hillside Playground), Val Caron - 2001.

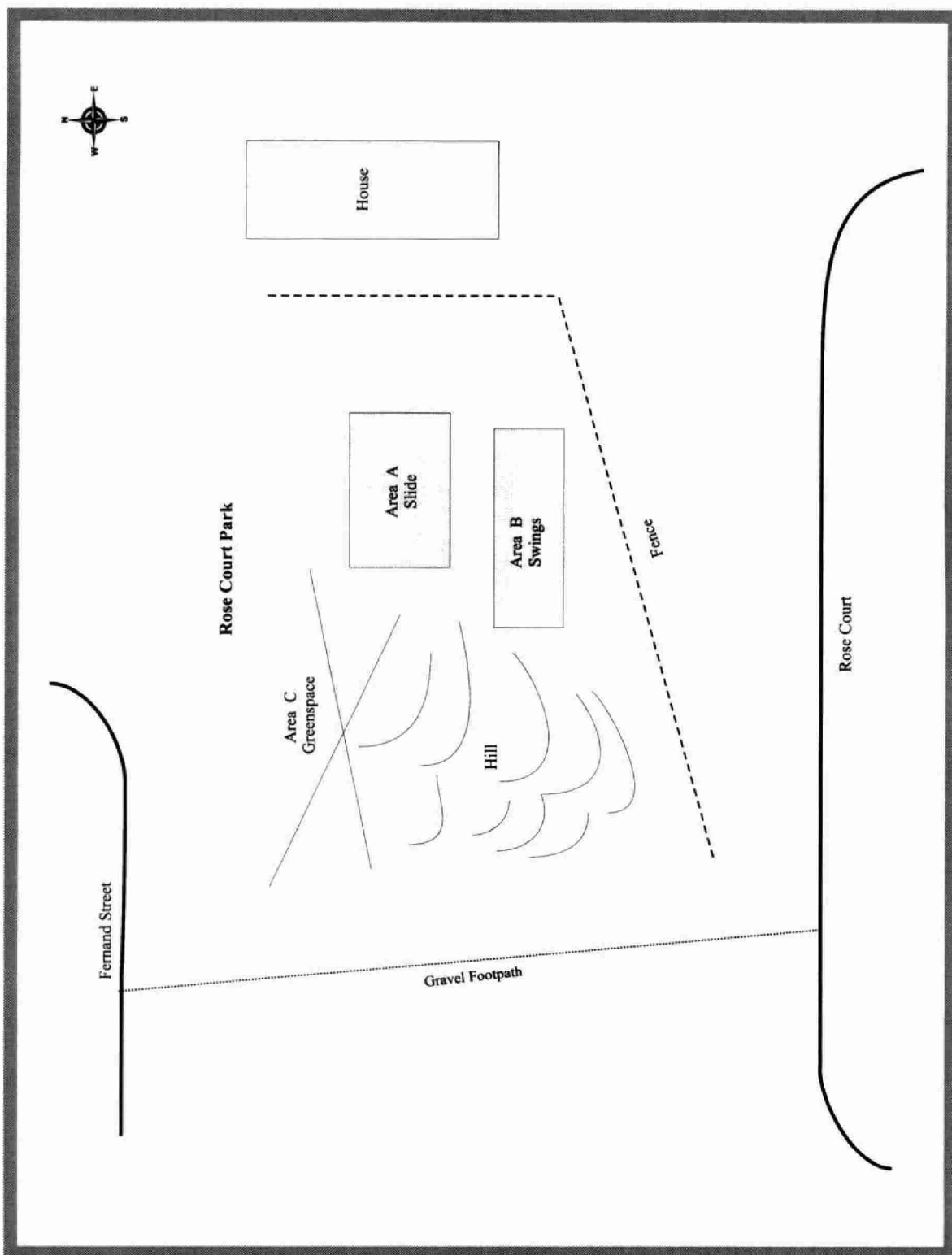


Map C5.21.7: Pinecrest Park, Val Caron - 2001.

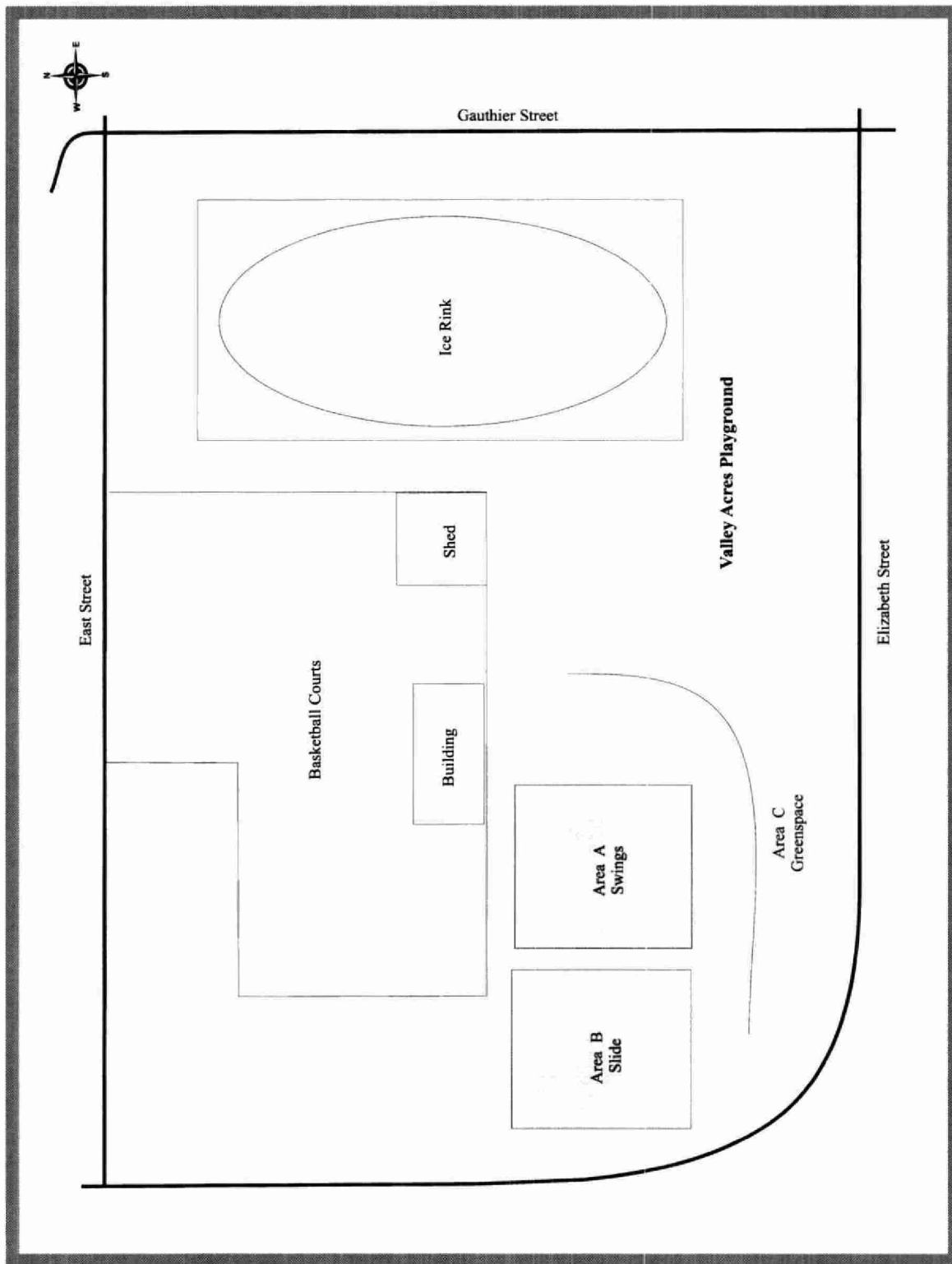


Map C5.21.8: Sunnyside Playground, Val Caron - 2001.

5.22 Val Therese Park Maps**Map C5.22.1: Mederic Park, Val Therese - 2001.**

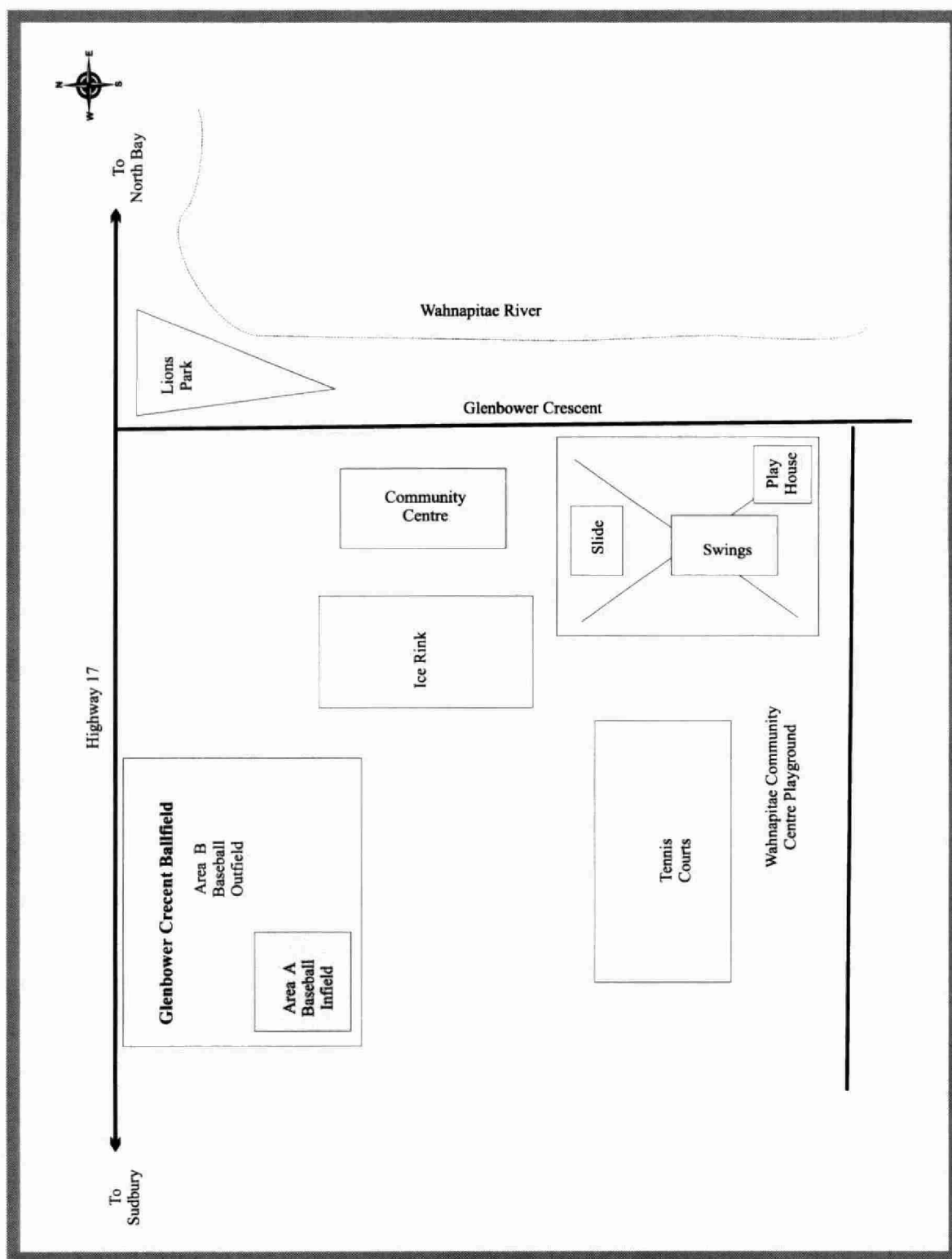


Map C5.22.2: Rose Court Park, Val Therese - 2001.

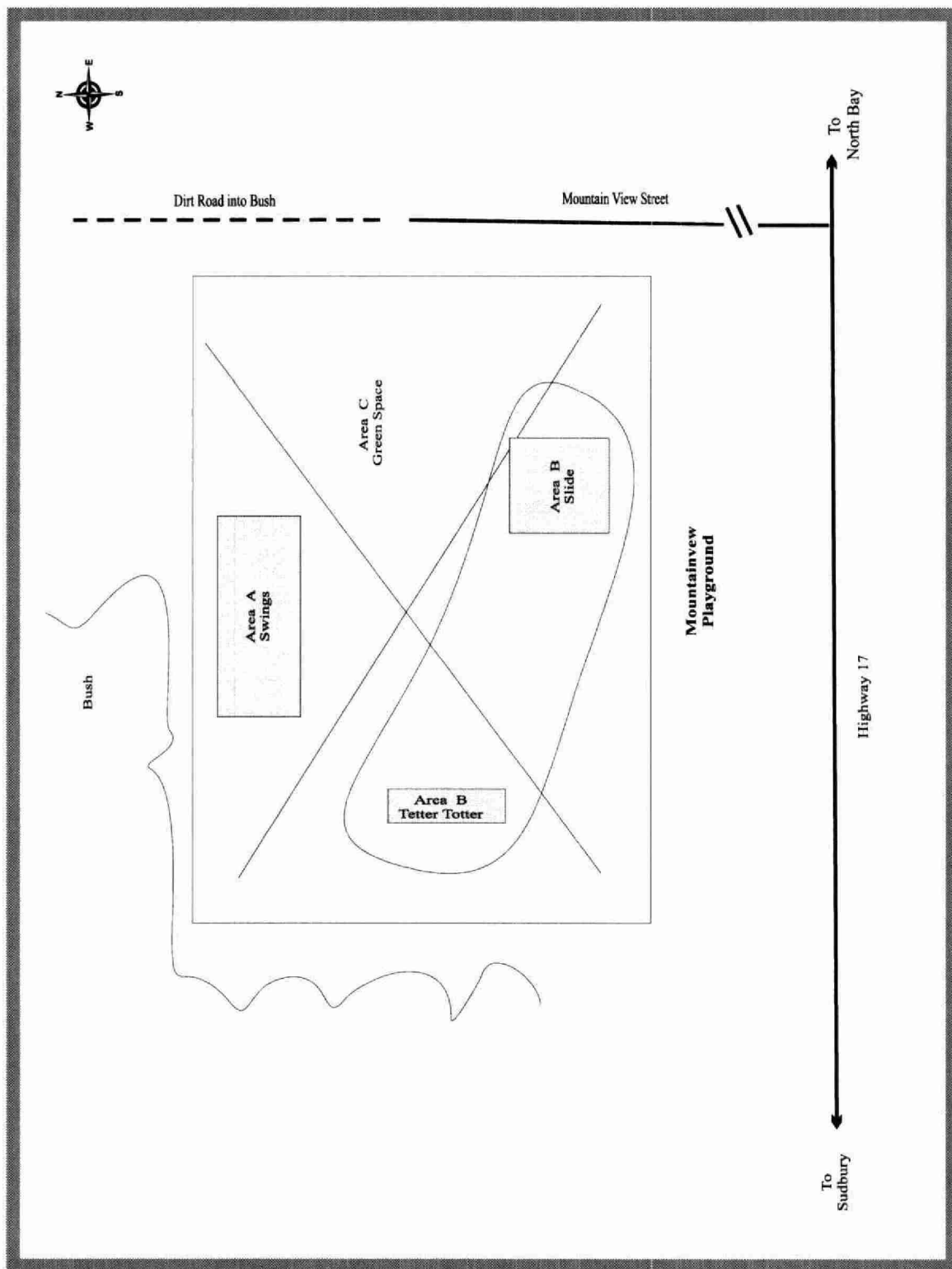


Map C5.22.3: Valley Acres Playground, Val Therese - 2001.

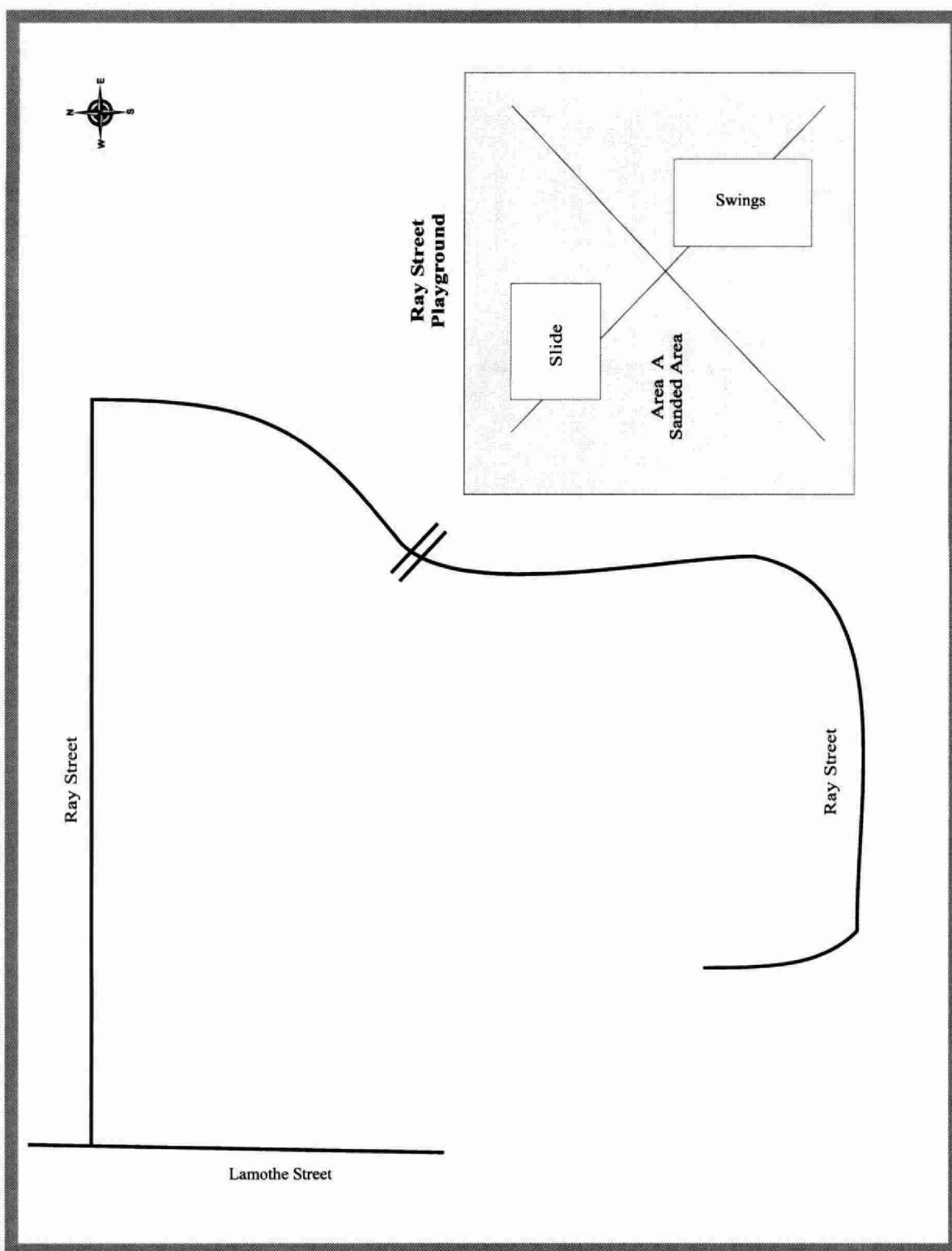
5.23 Wahnapiatae Park Maps



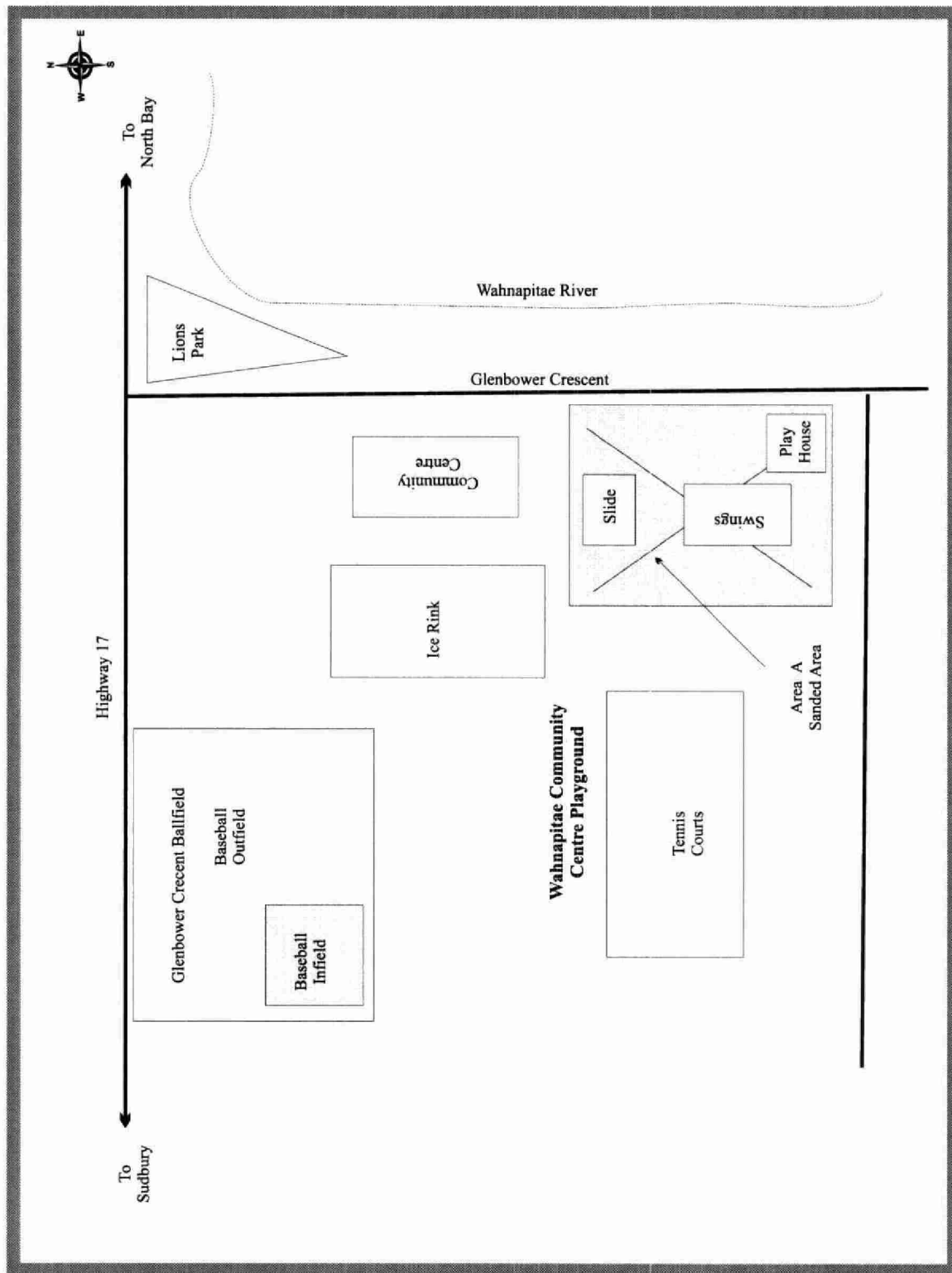
Map C5.23.1: Glenbower Crescent Ballfield, Wahnapiatae - 2001.



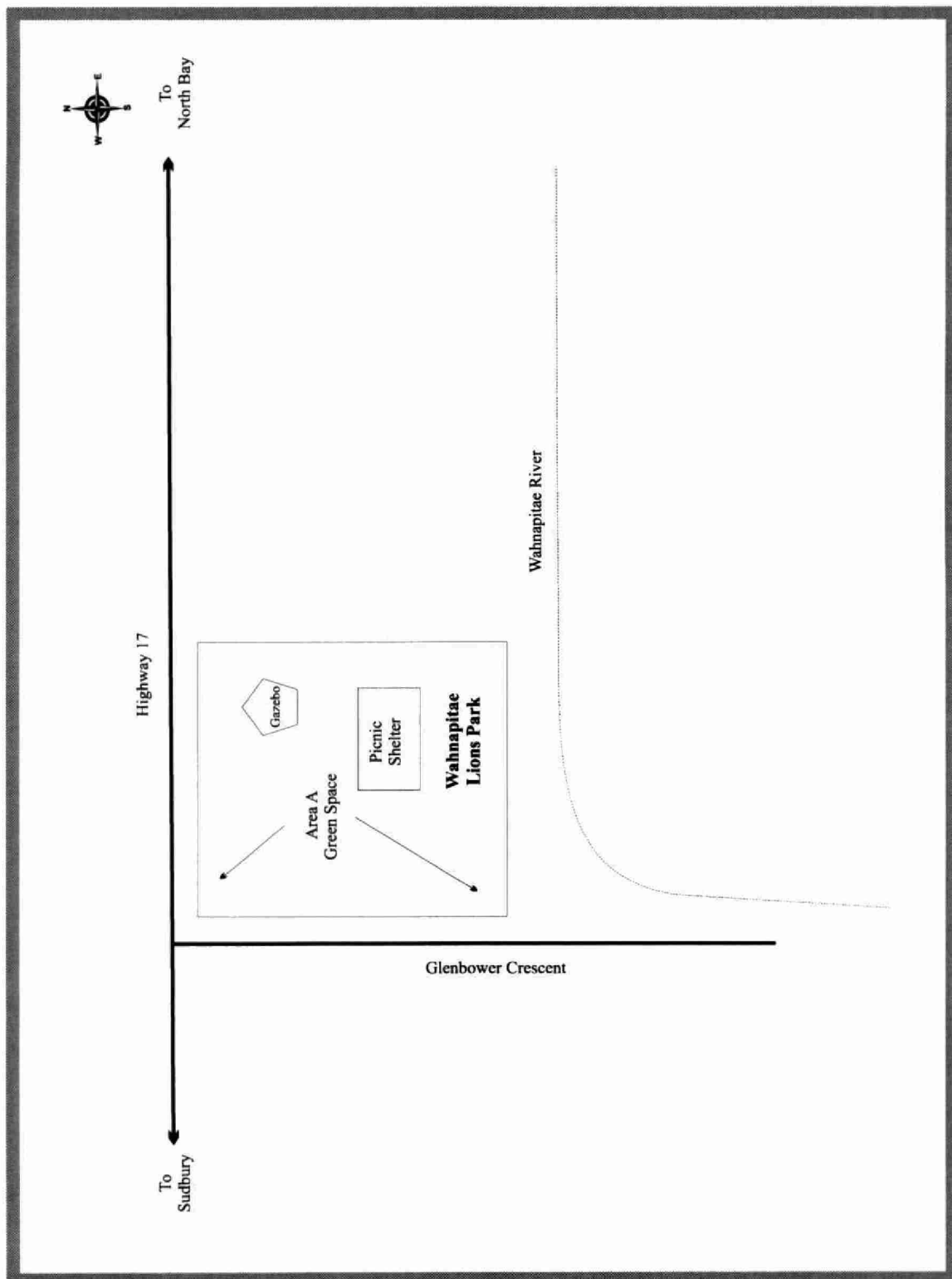
Map C5.23.2: Mountainview Playground, Wahnapiatae - 2001.



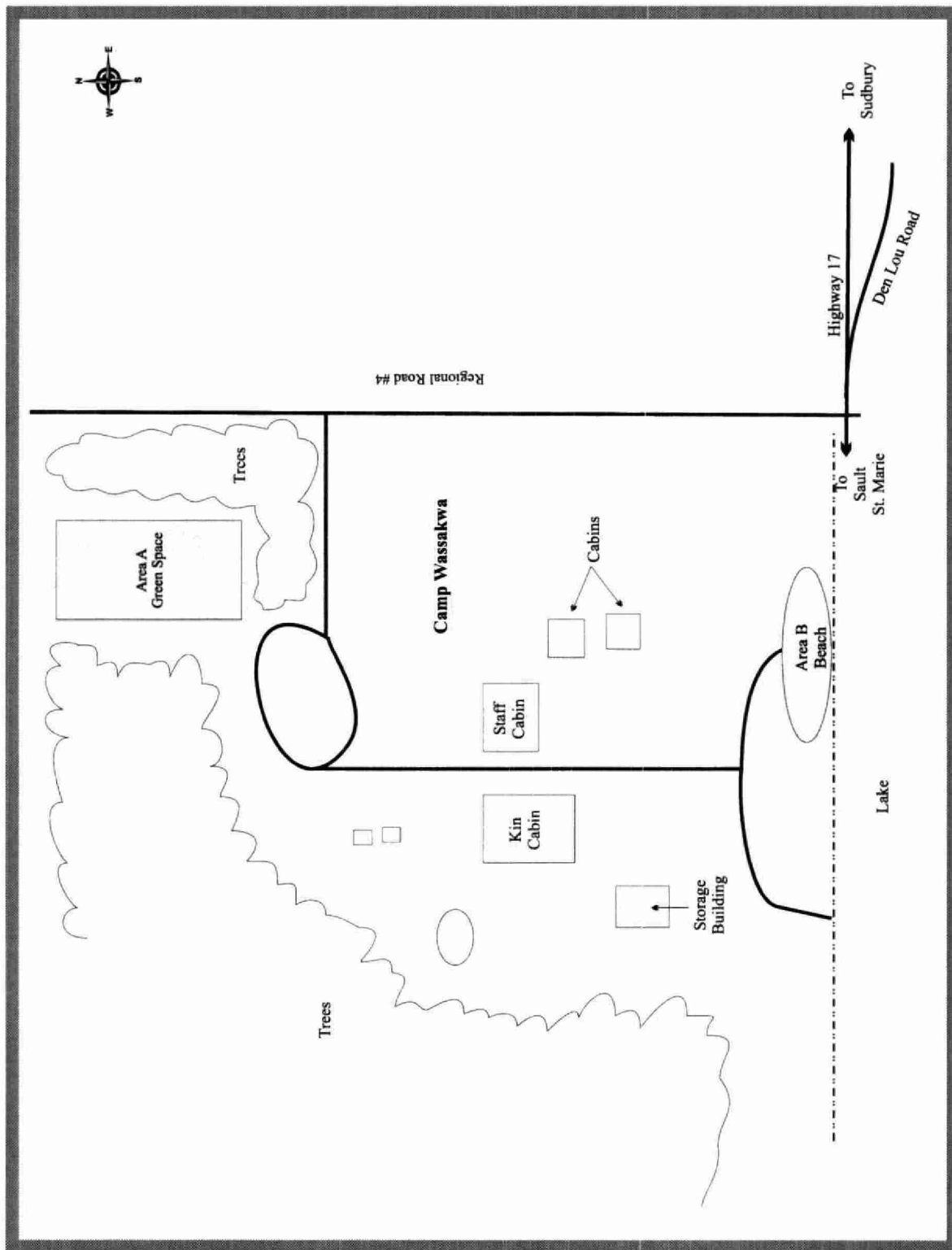
Map C5.23.3: Ray Street Playground, Wahnapiatae - 2001.

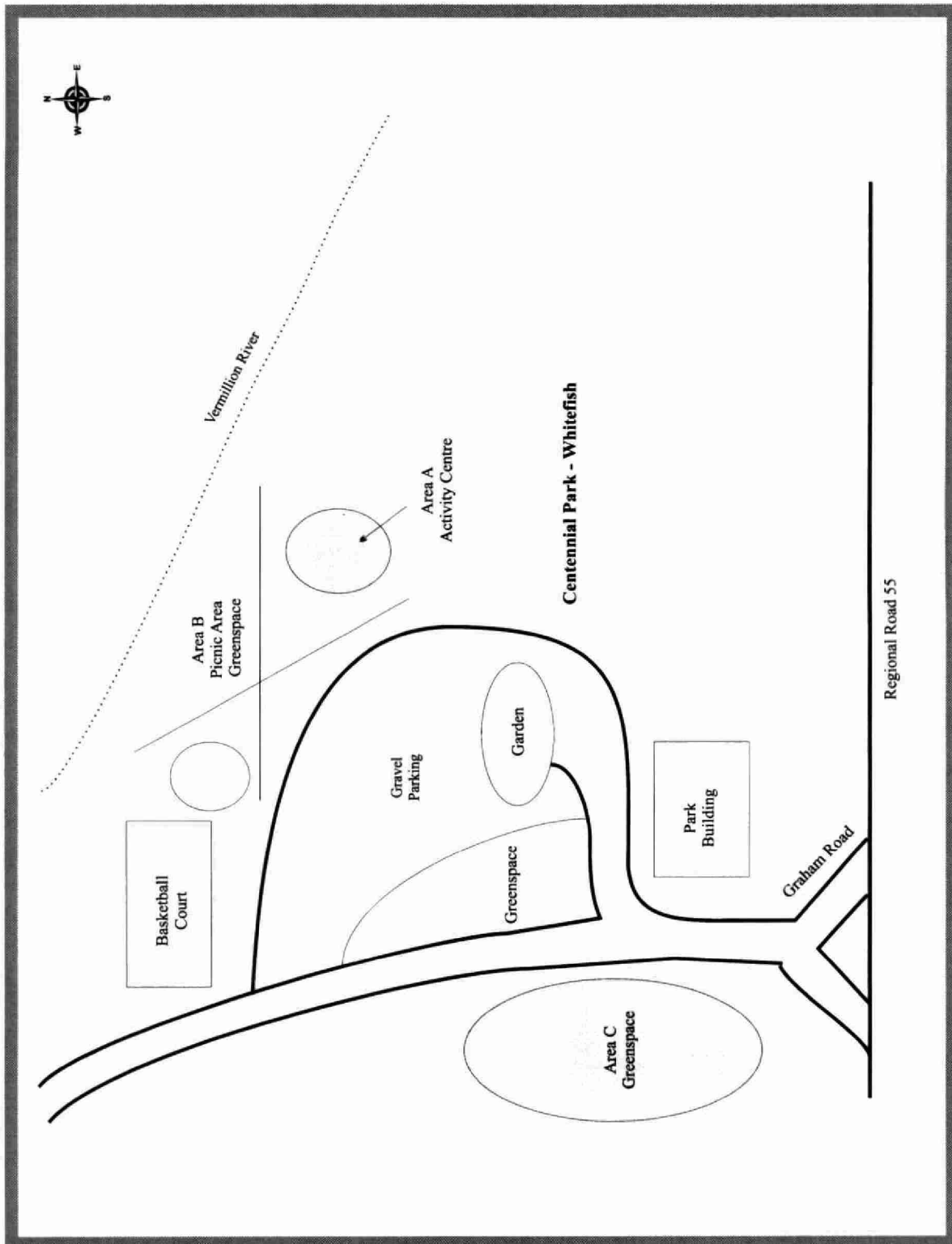


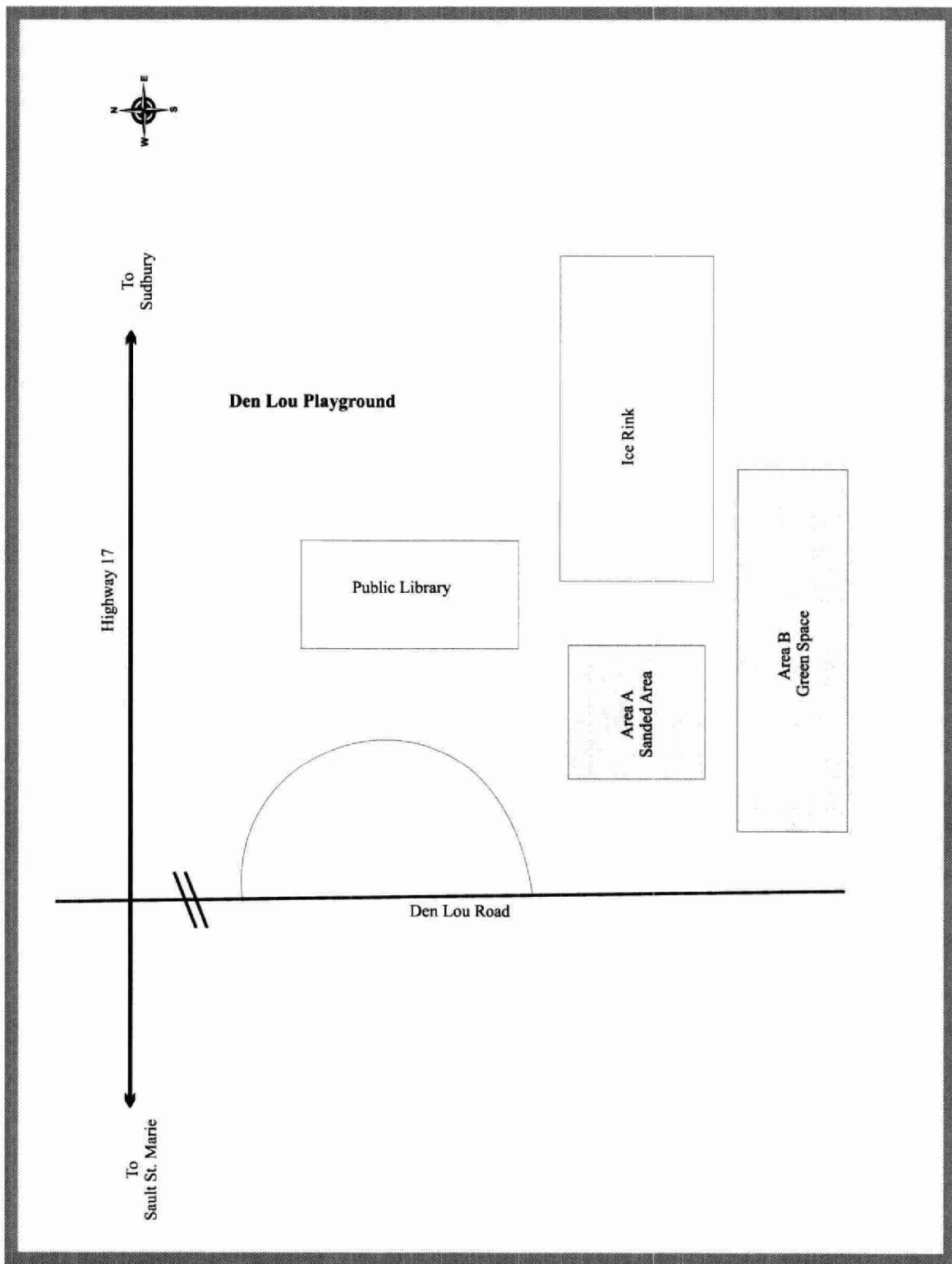
Map C5.23.4: Wahnapiatae Community Club, Wahnapiatae - 2001.



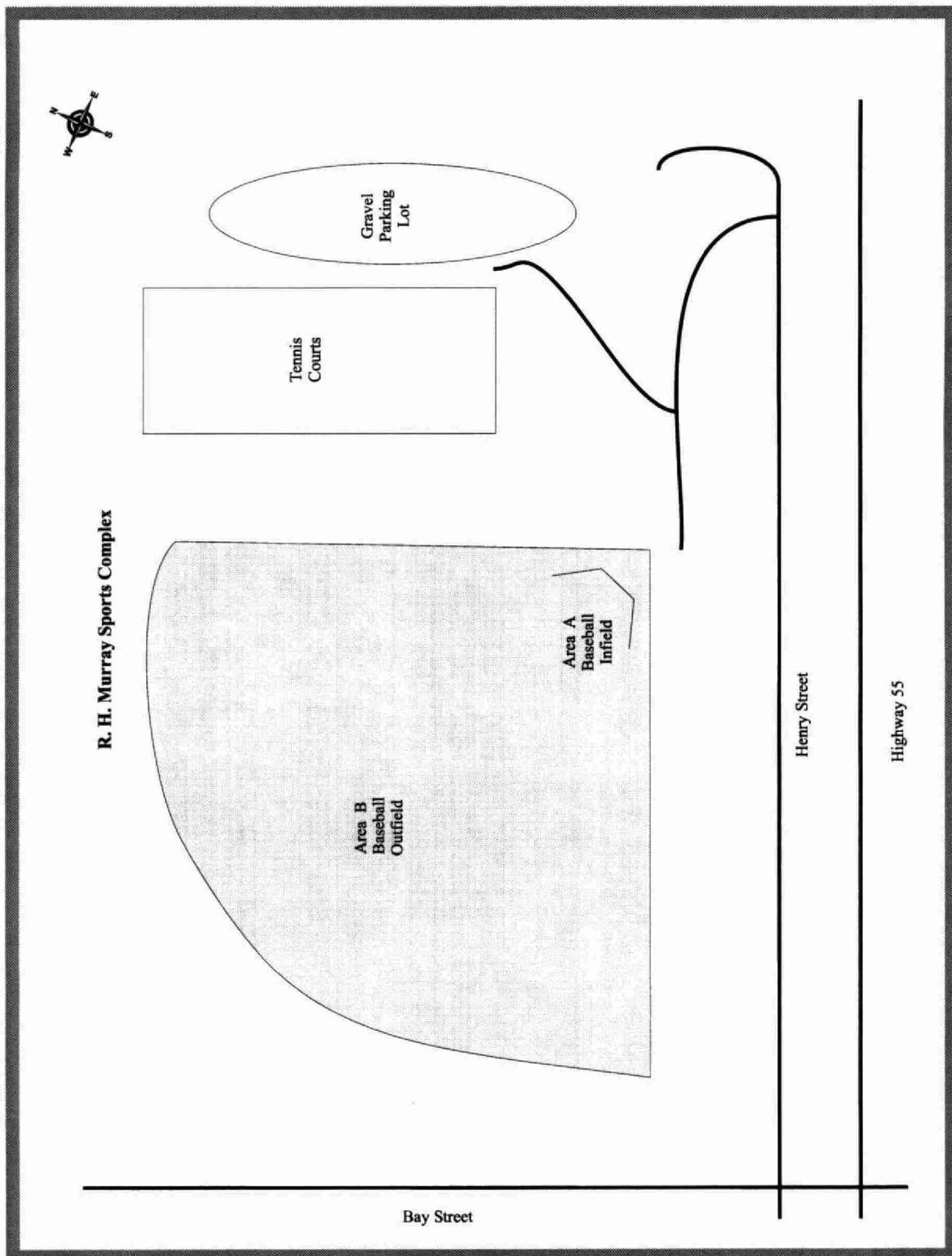
Map C5.23.5: Wahnapiatae Lions Park, Wahnapiatae - 2001.

5.24 Whitefish Park Maps**Map C5.24.1: Camp Wassakwa, Whitefish - 2001.**

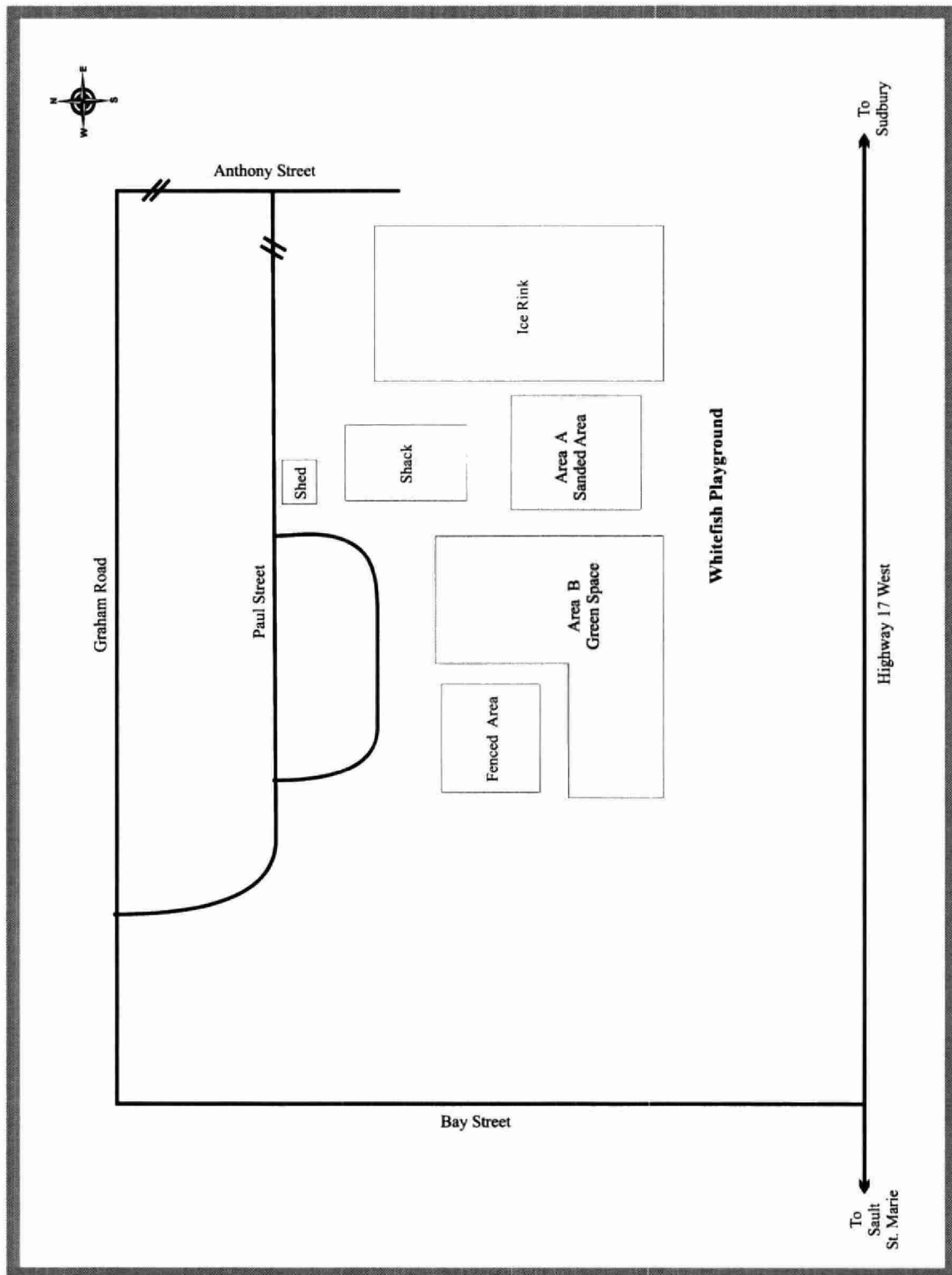




Map C5.24.3: Den Lou Playground, Whitefish - 2001.



Map C5.24.4: R.H. Murray Sports Complex, Whitefish - 2001.



6. PARK SAMPLING STATION COORDINATES

Station	Park	Community	Easting	Northing	Latitude	Longitude
5030441	Bell Park	Sudbury Core	500584	5146758	46.474392	-80.992393
5030442	Bell Park	Sudbury Core	500596	5146901	46.475679	-80.992236
5030443	Bell Park	Sudbury Core	500510	5146864	46.475346	-80.993356
5030444	Bell Park	Sudbury Core	500547	5147004	46.476606	-80.992874
5030445	Bell Park	Sudbury Core	500806	5147123	46.477676	-80.9895
5030446	Bell Park	Sudbury Core	500928	5147345	46.479674	-80.98791
5030447	Bell Park	Sudbury Core	500886	5147373	46.479926	-80.988458
5030448	Bell Park	Sudbury Core	500880	5147369	46.47989	-80.988536
5030449	Bell Park	Sudbury Core	500977	5147359	46.4798	-80.987272
5030450	Bell Park	Sudbury Core	501001	5147398	46.480151	-80.986959
5030451	Bell Park	Sudbury Core	500944	5147442	46.480547	-80.987702
5030452	Bell Park	Sudbury Core	501200	5147601	46.481978	-80.984366
5030453	Bell Park	Sudbury Core	500988	5147389	46.48007	-80.987129
5030454	Bell Park	Sudbury Core	500995	5147378	46.479971	-80.987038
5030455	Bell Park	Sudbury Core	500367	5147088	46.477362	-80.995219
5030456	Bell Park	Sudbury Core	500367	5146936	46.475994	-80.995219
5030457	Bell Park	Sudbury Core	500623	5146870	46.4754	-80.991884
5030458	Bell Park	Sudbury Core	500694	5146986	46.476444	-80.990959
5030459	Bell Park	Sudbury Core	500730	5147040	46.47693	-80.99049
5030460	Bell Park	Sudbury Core	500838	5147184	46.478225	-80.989083
5030461	Bell Park	Sudbury Core	500991	5147337	46.479602	-80.98709
5030462	Copper Cliff (Nickel) Park	Copper Cliff	494665	5146850	46.475199	-81.069496
5030463	Copper Cliff (Nickel) Park	Copper Cliff	494635	5146893	46.475586	-81.069888
5030464	Copper Cliff (Nickel) Park	Copper Cliff	494595	5147021	46.476737	-81.07041
5030465	Gerry Mills Memorial Ball Park	Copper Cliff	494414	5146842	46.475125	-81.072766
5030466	Gerry Mills Memorial Ball Park	Copper Cliff	494434	5146864	46.475323	-81.072505
5030467	Copper Cliff (Nickel) Park	Copper Cliff	494497	5146882	46.475486	-81.071685
5030468	Italian Commemorative Park	Copper Cliff	495445	5147351	46.479713	-81.05934
5030469	Green Space Park	Copper Cliff	494966	5147108	46.477523	-81.065578
5030470	Copper Cliff Lion's Park	Copper Cliff	494452	5146226	46.469581	-81.072263
5030471	Copper Cliff Lion's Park	Copper Cliff	494459	5146237	46.469681	-81.072172
5030472	Copper Cliff Lion's Park	Copper Cliff	494449	5146190	46.469257	-81.072302
5030473	Copper Cliff Lion's Park	Copper Cliff	494524	5146181	46.469177	-81.071325
5030474	Centennial Park	Falconbridge	514337	5158386	46.578885	-80.812884
5030475	Centennial Park	Falconbridge	514332	5158396	46.578975	-80.812949
5030476	Centennial Park	Falconbridge	514307	5158322	46.57831	-80.813277
5030477	Centennial Park	Falconbridge	514368	5158342	46.578489	-80.812481
5030478	Falconbridge Ballfields	Falconbridge	514542	5158437	46.57934	-80.810207
5030479	Falconbridge Ballfields	Falconbridge	514554	5158468	46.579619	-80.810049
5030480	Falconbridge Ballfields	Falconbridge	514448	5158426	46.579243	-80.811434
5030481	Falconbridge Ballfields	Falconbridge	514471	5158456	46.579512	-80.811133
5030482	Parkinson Playground	Falconbridge	514541	5157963	46.575074	-80.810235
5030483	Parkinson Playground	Falconbridge	514548	5157978	46.575209	-80.810143
5030484	Parkinson Playground	Falconbridge	514536	5157996	46.575371	-80.810299
5030485	Parkinson Playground	Falconbridge	514522	5157988	46.5753	-80.810482
5030486	Parkinson Playground	Falconbridge	514528	5157984	46.575264	-80.810404
5030487	Parkinson Playground	Falconbridge	514537	5157979	46.575218	-80.810286
5030488	Dedication Park	Falconbridge	514464	5158194	46.577155	-80.811232
5030489	Central Park	Falconbridge	514444	5158059	46.57594	-80.811498
5030490	Central Park	Falconbridge	514482	5158085	46.576173	-80.811001
5030491	Centennial Playground	Coniston	511558	5148219	46.487441	-80.849406

Table C6: Park Sampling Station Coordinates			(Map Datum NAD 83, accurate to ±30 metres)			
Station	Park	Community	Easting	Northing	Latitude	Longitude
5030492	Centennial Playground	Coniston	511557	5148213	46.487387	-80.849419
5030493	Centennial Playground	Coniston	511570	5148179	46.487081	-80.849251
5030494	Second Ave Park	Coniston	511690	5148211	46.487367	-80.847687
5030495	Second Ave Park	Coniston	511647	5148219	46.48744	-80.848247
5030496	Red Sox Ballfield	Coniston	511766	5148317	46.48832	-80.846694
5030497	Red Sox Ballfield	Coniston	511794	5148287	46.488049	-80.84633
5030498	East End Ballfield - East End Park	Coniston	512806	5148475	46.489723	-80.833139
5030499	East End Ballfield - East End Park	Coniston	512813	5148441	46.489417	-80.833048
5030500	East End Ballfield - East End Park	Coniston	512615	5148427	46.489294	-80.835629
5030501	East End Ballfield - East End Park	Coniston	512635	5148425	46.489276	-80.835368
5030502	Community Centre Field	Coniston	511823	5148231	46.487545	-80.845953
5030503	Saturn Playground	Garson	510551	5155203	46.55031	-80.862368
5030504	Garson Community Centre	Garson	510803	5156017	46.557632	-80.859062
5030505	Garson Community Centre	Garson	510691	5155837	46.556014	-80.860527
5030506	Cedar Playground	Garson	510444	5156811	46.564783	-80.863728
5030507	Cedar Playground	Garson	510458	5156816	46.564828	-80.863545
5030508	Cedar Playground	Garson	510458	5156898	46.565566	-80.863543
5030509	Tiger Field	Garson	510961	5156827	46.564919	-80.856982
5030510	Tiger Field	Garson	510992	5156866	46.565269	-80.856576
5030511	Lion's Park & Playground	Garson	510497	5156391	46.561003	-80.863046
5030512	Lion's Park & Playground	Garson	510473	5156409	46.561165	-80.863358
5030513	Lion's Park & Playground	Garson	510513	5156462	46.561645	-80.862835
5030514	Lion's Park & Playground	Garson	510499	5156428	46.561339	-80.863019
5030515	Lion's Park & Playground	Garson	510484	5156449	46.561528	-80.863214
5030516	Lion's Park & Playground	Garson	510521	5156531	46.562265	-80.862729
5030517	Thomas Street Playground Tot Lot	Garson	511071	5154687	46.545662	-80.855597
5030518	Thomas Street Playground Tot Lot	Garson	511079	5154681	46.545607	-80.855493
5030519	Penman Ave Playground	Garson	509799	5155013	46.548615	-80.872182
5030520	Penman Ave Playground	Garson	509786	5154808	46.546767	-80.872356
5030521	Penman Ave Playground	Garson	509747	5154802	46.546714	-80.872864
5030522	Lorne Brady Park	Garson	509167	5155448	46.552536	-80.880417
5030523	Lorne Brady Park	Garson	509216	5155417	46.552256	-80.879778
5030524	Lorne Brady Park	Garson	509269	5155401	46.552111	-80.879087
5030525	Lorne Brady Park	Garson	509269	5155359	46.551733	-80.879088
5030526	Lorne Brady Park	Garson	509129	5155403	46.552131	-80.880913
5030527	Lorne Brady Park	Garson	509137	5155360	46.551744	-80.88081
5030528	Lorne Brady Park	Garson	509171	5155268	46.550916	-80.880368
5030529	Lorne Brady Park	Garson	509162	5155301	46.551213	-80.880485
5030530	Metcalfe Playground (Imperial Subdivision Playground)	Garson	508623	5155060	46.549051	-80.88752
5030531	Metcalfe Playground (Imperial Subdivision Playground)	Garson	508631	5155055	46.549006	-80.887416
5030532	Metcalfe Playground (Imperial Subdivision Playground)	Garson	508637	5155066	46.549105	-80.887338
5030533	Metcalfe Playground (Imperial Subdivision Playground)	Garson	508676	5155093	46.549347	-80.886829
5030534	Cedar Green Playground	Garson	508052	5154902	46.547639	-80.894971
5030535	Matson (Aka Subdivision) Playground	Garson	506832	5154140	46.540795	-80.910896
5030536	Wahnapiatae Lions Park	Wahnapiatae	516259	5148396	46.48894	-80.788149
5030537	Wahnapiatae Community Club Playground	Wahnapiatae	516181	5148275	46.487853	-80.78917
5030538	Glenbower Crescent Ballfield	Wahnapiatae	516155	5148343	46.488466	-80.789506
5030539	Glenbower Crescent Ballfield	Wahnapiatae	516158	5148387	46.488862	-80.789466
5030540	Mountainview Playground	Wahnapiatae	515953	5148849	46.493024	-80.792121
5030541	Mountainview Playground	Wahnapiatae	515952	5148844	46.492979	-80.792134
5030542	Mountainview Playground	Wahnapiatae	515951	5148846	46.492997	-80.792147

Table C6: Park Sampling Station Coordinates			(Map Datum NAD 83, accurate to ±30 metres)			
Station	Park	Community	Easting	Northing	Latitude	Longitude
5030543	Quinn & Logan Streets Playground	Gatchell	497788	5146928	46.475921	-81.028815
5030544	Quinn & Logan Streets Playground	Gatchell	497765	5146695	46.473821	-81.029113
5030545	Gatchell Pool Field	Gatchell	497899	5146803	46.474794	-81.027368
5030546	Delki Dozzi Athletic Field	Gatchell	498166	5147239	46.478718	-81.023892
5030547	Delki Dozzi Athletic Field	Gatchell	498390	5147372	46.479916	-81.020974
5030548	Delki Dozzi Athletic Field	Gatchell	498392	5147419	46.480339	-81.020949
5030549	Delki Dozzi Athletic Field	Gatchell	498388	5147322	46.479466	-81.021
5030550	Delki Dozzi Athletic Field	Gatchell	498254	5147382	46.480006	-81.022746
5030551	Delki Dozzi Athletic Field	Gatchell	498244	5147348	46.4797	-81.022876
5030552	Participaction Projects Playground	Sudbury Core	498760	5147496	46.481033	-81.016155
5030553	Participaction Projects Playground	Sudbury Core	498742	5147483	46.480916	-81.016389
5030554	Elm West Playground	Sudbury Core	498954	5149266	46.496962	-81.013631
5030555	Elm West Playground	Sudbury Core	498988	5149517	46.499224	-81.013189
5030556	Elm West Playground	Sudbury Core	499092	5149517	46.499224	-81.011833
5030557	Elm West Playground	Sudbury Core	499071	5149541	46.49944	-81.012107
5030558	Elm West Playground	Sudbury Core	498959	5149560	46.499611	-81.013567
5030559	Queen's Athletic Field	Sudbury Core	499608	5148883	46.493519	-81.005108
5030560	Queen's Athletic Field	Sudbury Core	499482	5148729	46.49213	-81.00675
5030561	Queen's Athletic Field	Sudbury Core	499527	5148679	46.49168	-81.006163
5030562	Queen's Athletic Field	Sudbury Core	499540	5148954	46.494158	-81.005994
5030563	Queen's Athletic Field	Sudbury Core	499541	5148846	46.493186	-81.005981
5030564	Nolin Creek Park	Sudbury Core	499413	5149473	46.498826	-81.00765
5030565	Victory Playground	Sudbury Core	499504	5150148	46.5049	-81.006465
5030566	Victory Playground	Sudbury Core	499484	5150177	46.505161	-81.006725
5030567	Victory Playground	Sudbury Core	499528	5150152	46.504936	-81.006152
5030568	Selkirk Field	Sudbury Core	500055	5150826	46.511002	-80.999283
5030569	Selkirk Field	Sudbury Core	500066	5150844	46.511164	-80.99914
5030570	Selkirk Field	Sudbury Core	500035	5150797	46.510741	-80.999544
5030571	Selkirk Field	Sudbury Core	499997	5150789	46.510669	-81.000039
5030572	Selkirk Field	Sudbury Core	499906	5150772	46.510516	-81.001225
5030573	Antwerp Playground	Sudbury Core	499877	5149960	46.503209	-81.001603
5030574	Ryan Heights Playground	Sudbury Core	500579	5150471	46.507807	-80.992453
5030575	Ryan Heights Playground	Sudbury Core	500570	5150468	46.50778	-80.99257
5030576	Melvin Ave And Mabel St Playground	Sudbury Core	500109	5149889	46.50257	-80.998579
5030577	Melvin Ave And Mabel St Playground	Sudbury Core	500121	5149893	46.502606	-80.998423
5030578	O'Connor Park (Better Beginnings)	Sudbury Core	500574	5150191	46.505287	-80.992519
5030579	O'Connor Park (Better Beginnings)	Sudbury Core	500590	5150199	46.505359	-80.99231
5030580	O'Connor Park (Better Beginnings)	Sudbury Core	500595	5150213	46.505485	-80.992245
5030581	O'Connor Park (Better Beginnings)	Sudbury Core	500726	5150232	46.505656	-80.990538
5030582	Terry Fox Complex	Sudbury Core	500255	5151183	46.514215	-80.996676
5030583	Terry Fox Complex	Sudbury Core	500258	5151142	46.513846	-80.996637
5030584	Terry Fox Complex	Sudbury Core	500158	5151235	46.514683	-80.99794
5030585	Terry Fox Complex	Sudbury Core	500168	5151194	46.514314	-80.99781
5030586	Terry Fox Complex	Sudbury Core	500054	5151289	46.515169	-80.999296
5030587	Terry Fox Complex	Sudbury Core	500061	5151251	46.514827	-80.999205
5030588	Terry Fox Complex	Sudbury Core	500159	5151375	46.515943	-80.997927
5030589	Terry Fox Complex	Sudbury Core	500168	5151316	46.515412	-80.99781
5030590	Terry Fox Complex	Sudbury Core	500213	5151256	46.514872	-80.997223
5030591	Percy Playground	Sudbury Core	501429	5150351	46.506726	-80.981374
5030592	Percy Playground	Sudbury Core	501467	5150336	46.506591	-80.980879
5030593	Percy Playground	Sudbury Core	501450	5150341	46.506636	-80.981101
5030594	Percy Playground	Sudbury Core	501385	5150407	46.50723	-80.981948
5030595	Percy Playground	Sudbury Core	501456	5150393	46.507104	-80.981022
5030596	Lilly Creek Athletic Field	Sudbury South	500043	5146094	46.468416	-80.99944

Table C6: Park Sampling Station Coordinates			(Map Datum NAD 83, accurate to ± 30 metres)			
Station	Park	Community	Easting	Northing	Latitude	Longitude
5030597	Lilly Creek Athletic Field	Sudbury South	500034	5146052	46.468038	-80.999557
5030598	Lilly Creek Athletic Field	Sudbury South	500050	5146130	46.46874	-80.999349
5030599	Lilly Creek Athletic Field	Sudbury South	500076	5146246	46.469784	-80.99901
5030600	Lilly Creek Athletic Field	Sudbury South	500062	5146202	46.469388	-80.999192
5030601	Lilly Creek Athletic Field	Sudbury South	500002	5146301	46.470279	-80.999974
5030602	Lilly Creek Athletic Field	Sudbury South	499874	5146208	46.469442	-81.001641
5030603	Lilly Creek Athletic Field	Sudbury South	499878	5146255	46.469865	-81.001589
5030604	Lilly Creek Athletic Field	Sudbury South	499989	5146129	46.468731	-81.000143
5030605	Lockerby Playground	Sudbury South	499657	5145638	46.464312	-81.004467
5030606	Lockerby Playground	Sudbury South	499651	5145649	46.464411	-81.004545
5030607	McLean Playground	Sudbury New	501673	5151917	46.520819	-80.978188
5030608	McLean Playground	Sudbury New	501669	5151951	46.521125	-80.978241
5030609	Grandview Park	Sudbury New	502211	5152552	46.526532	-80.971171
5030610	Cedar Park	Sudbury New	503139	5152400	46.52516	-80.959072
5030611	Cedar Park	Sudbury New	503194	5152353	46.524737	-80.958356
5030612	Cedar Park	Sudbury New	503140	5152346	46.524674	-80.95906
5030613	Cedar Park	Sudbury New	503244	5152345	46.524665	-80.957704
5030614	Ridgecrest Tot Lot	Sudbury New	503843	5152747	46.528279	-80.949891
5030615	Ridgecrest Tot Lot	Sudbury New	503841	5152766	46.52845	-80.949916
5030616	Ridgecrest Tot Lot	Sudbury New	503858	5152769	46.528477	-80.949695
5030617	Redfern Park	Sudbury New	504132	5153003	46.530582	-80.94612
5030618	Redfern Park	Sudbury New	504123	5153044	46.530951	-80.946237
5030619	Lansing Field	Sudbury New	505300	5152686	46.527721	-80.930893
5030620	Lansing Field	Sudbury New	505323	5152653	46.527423	-80.930594
5030621	Lansing Field	Sudbury New	505240	5152611	46.527046	-80.931676
5030622	Lansing Field	Sudbury New	505194	5152615	46.527082	-80.932276
5030623	Twin Forks Athletic Field	Sudbury New	505701	5152896	46.529607	-80.925662
5030624	Twin Forks Athletic Field	Sudbury New	505661	5152846	46.529158	-80.926184
5030625	Twin Forks Athletic Field	Sudbury New	505651	5152783	46.528591	-80.926315
5030626	Twin Forks Athletic Field	Sudbury New	505639	5152748	46.528276	-80.926472
5030627	Twin Forks Athletic Field	Sudbury New	505584	5152826	46.528978	-80.927188
5030628	Place Hurtubise Playground	Sudbury New	505663	5152118	46.522606	-80.926167
5030629	Place Hurtubise Playground	Sudbury New	505660	5152084	46.5223	-80.926206
5030630	Rosemarie Playground	Sudbury New	505766	5152492	46.525971	-80.924819
5030631	Rosemarie Playground	Sudbury New	505775	5152458	46.525665	-80.924703
5030632	Madison Playground	Sudbury New	506324	5153184	46.532193	-80.917534
5030633	Madison Playground	Sudbury New	506335	5153158	46.531959	-80.917391
5030634	Don Lita Playground	Sudbury New	506272	5151763	46.519406	-80.918232
5030635	Don Lita Playground	Sudbury New	506287	5151790	46.519648	-80.918036
5030636	Westmount Playground	Sudbury New	504543	5150808	46.510825	-80.940782
5030637	Westmount Playground	Sudbury New	504532	5150836	46.511077	-80.940925
5030638	Confederation Arena	Val Caron	498556	5162445	46.615565	-81.018859
5030639	Confederation Arena	Val Caron	498543	5162463	46.615727	-81.019029
5030640	Confederation Arena	Val Caron	498547	5162439	46.615511	-81.018976
5030641	Confederation Arena	Val Caron	498558	5162422	46.615358	-81.018833
5030642	Confederation Arena	Val Caron	498451	5162326	46.614494	-81.02023
5030643	Confederation Arena	Val Caron	498407	5162293	46.614197	-81.020804
5030644	Flake Playground	Val Caron	497267	5162538	46.616398	-81.035694
5030645	Flake Playground	Val Caron	497268	5162547	46.616479	-81.035681
5030646	Flake Playground	Val Caron	497284	5162545	46.616461	-81.035472
5030647	Flake Playground	Val Caron	497272	5162517	46.616209	-81.035628
5030648	McCrea Heights Playground (Hillside)	Val Caron	497615	5162114	46.612584	-81.031147
5030649	Daniel Park	Val Caron	500052	5162440	46.615522	-80.999321
5030650	Daniel Park	Val Caron	500055	5162427	46.615405	-80.999282

Table C6: Park Sampling Station Coordinates			(Map Datum NAD 83, accurate to ±30 metres)			
Station	Park	Community	Easting	Northing	Latitude	Longitude
5030651	Daniel Park	Val Caron	500041	5162424	46.615378	-80.999465
5030652	Daniel Park	Val Caron	500043	5162442	46.61554	-80.999438
5030653	Sunnyside Playground	Val Caron	501742	5162609	46.617041	-80.977249
5030654	Sunnyside Playground	Val Caron	501767	5162627	46.617203	-80.976922
5030655	Sunnyside Playground	Val Caron	501713	5162603	46.616987	-80.977627
5030656	McMillan Park	Val Caron	499499	5164806	46.636814	-81.006546
5030657	McMillan Park	Val Caron	499508	5164803	46.636787	-81.006428
5030658	Macmillian Playground	Val Caron	499487	5164803	46.636787	-81.006702
5030659	Pinecrest Park	Val Caron	499077	5164287	46.632143	-81.012058
5030660	Pinecrest Park	Val Caron	499073	5164337	46.632593	-81.01211
5030661	Pinecrest Park	Val Caron	499058	5164335	46.632575	-81.012306
5030662	Carol Richard Playground	Val Caron	499013	5163934	46.628966	-81.012893
5030663	Carol Richard Playground	Val Caron	499021	5163959	46.629191	-81.012789
5030664	Guilleville Playground	Guilleville	499364	5158519	46.580235	-81.008301
5030665	Guilleville Playground	Guilleville	499400	5158520	46.580244	-81.007831
5030666	Guilleville Playground	Guilleville	499387	5158510	46.580154	-81.008001
5030667	Guilleville Playground	Guilleville	499385	5158525	46.580289	-81.008027
5030668	Blezzard Valley Playground	Blezzard Valley	495945	5161597	46.607923	-81.052951
5030669	Blezzard Valley Playground	Blezzard Valley	495951	5161590	46.60786	-81.052873
5030670	Blezzard Valley Playground	Blezzard Valley	495952	5161584	46.607806	-81.05286
5030671	Carrefour Sen. Rheel Belisle Sports Comp	Blezzard Valley	495919	5161542	46.607428	-81.05329
5030672	Carrefour Sen. Rheel Belisle Sports Comp	Blezzard Valley	495888	5161516	46.607194	-81.053695
5030673	Carrefour Sen. Rheel Belisle Sports Comp	Blezzard Valley	495803	5161497	46.607022	-81.054805
5030674	Carrefour Sen. Rheel Belisle Sports Comp	Blezzard Valley	495822	5161519	46.607221	-81.054557
5030675	Carrefour Sen. Rheel Belisle Sports Comp	Blezzard Valley	495810	5161598	46.607931	-81.054714
5030676	Moonlight Beach Park	Sudbury East	506933	5146673	46.473591	-80.90969
5030677	Moonlight Beach Park	Sudbury East	506946	5146671	46.473573	-80.909521
5030678	Moonlight Beach Park	Sudbury East	506966	5146693	46.473771	-80.90926
5030679	Moonlight Beach Park	Sudbury East	506953	5146760	46.474374	-80.909428
5030680	Moonlight Beach Park	Sudbury East	506967	5146595	46.472889	-80.909248
5030681	Moonlight Beach Park	Sudbury East	507054	5146713	46.47395	-80.908113
5030682	Moonlight Beach Ball Park	Sudbury East	507197	5147409	46.480212	-80.90624
5030683	Moonlight Beach Ball Park	Sudbury East	507195	5147374	46.479897	-80.906266
5030684	Lonsdale Playground	Sudbury East	502094	5148575	46.490741	-80.972715
5030685	Lonsdale Playground	Sudbury East	502103	5148536	46.49039	-80.972598
5030686	Bellevue Ave Park	Sudbury East	503372	5148541	46.49043	-80.956062
5030687	Carmichael Community Centre & Arena	Sudbury East	503558	5148965	46.494245	-80.953636
5030688	Carmichael Community Centre & Arena	Sudbury East	503601	5148853	46.493237	-80.953076
5030689	Carmichael Community Centre & Arena	Sudbury East	503613	5148894	46.493605	-80.952919
5030690	Carmichael Community Centre & Arena	Sudbury East	503685	5148957	46.494172	-80.951981
5030691	Carmichael Community Centre & Arena	Sudbury East	503663	5148921	46.493848	-80.952268
5030692	Eyre Playground	Sudbury East	502753	5149418	46.498325	-80.964123
5030693	Adamsdale Playground	Sudbury East	505006	5149340	46.49761	-80.934763
5030694	Adamsdale Playground	Sudbury East	505036	5149274	46.497016	-80.934372
5030695	Adamsdale Playground	Sudbury East	505061	5149317	46.497403	-80.934046
5030696	Adamsdale Playground	Sudbury East	504954	5149312	46.497359	-80.935441
5030697	Adamsdale Playground	Sudbury East	504958	5149311	46.49735	-80.935389
5030698	Cambrian College	Sudbury New	504510	5153128	46.531704	-80.94119
5030699	Cambrian College	Sudbury New	504499	5153162	46.53201	-80.941333
5030700	Cambrian College	Sudbury New	504615	5153150	46.531901	-80.93982
5030701	Little Britain Tot Lot	Sudbury Core	499040	5149656	46.500472	-81.012511
5030702	Little Britain Tot Lot	Sudbury Core	499052	5149675	46.500643	-81.012355
5030703	Brebeuf Park	Sudbury Core	500836	5149733	46.501165	-80.989105
5030704	Brebeuf Park	Sudbury Core	500867	5149712	46.500976	-80.988701

Station	Park	Community	Easting	Northing	Latitude	Longitude
5030705	Brebeuf Park	Sudbury Core	500938	5149726	46.501102	-80.987775
5030706	Riverdale Park (York & Windsor)	Sudbury Core	499984	5146898	46.475652	-81.000208
5030707	Riverdale Park (York & Windsor)	Sudbury Core	499940	5146889	46.475571	-81.000782
5030708	Robinson Playground	Sudbury South	498084	5145005	46.458613	-81.024951
5030709	Robinson Playground	Sudbury South	498079	5144975	46.458343	-81.025016
5030710	Robinson Playground	Sudbury South	498105	5145032	46.458856	-81.024678
5030711	Memorial Park	Sudbury Core	500528	5148535	46.490384	-80.99312
5030712	Memorial Park	Sudbury Core	500534	5148546	46.490483	-80.993042
5030713	Memorial Park	Sudbury Core	500526	5148561	46.490618	-80.993146
5030714	Memorial Park	Sudbury Core	500561	5148540	46.490429	-80.99269
5030715	Memorial Park	Sudbury Core	500588	5148508	46.490141	-80.992338
5030716	Camp Sudaca	Sudbury East	506810	5146345	46.470641	-80.911297
5030717	Camp Sudaca	Sudbury East	506830	5146313	46.470353	-80.911037
5030718	Camp Sudaca	Sudbury East	506695	5146513	46.472154	-80.912793
5030719	Camp Sudaca	Sudbury East	506701	5146433	46.471434	-80.912716
5030720	David St Playground	Chelmsford	484356	5158405	46.579027	-81.204175
5030721	David St Playground	Chelmsford	484346	5158384	46.578838	-81.204305
5030722	David St Playground	Chelmsford	484354	5158410	46.579072	-81.204201
5030723	Rodrigue St Playground	Chelmsford	484457	5158769	46.582305	-81.202869
5030724	Main St Playground	Chelmsford	485232	5158901	46.583511	-81.192758
5030725	Cote Park	Chelmsford	485152	5157997	46.575374	-81.193773
5030726	Cote Park	Chelmsford	485157	5158028	46.575653	-81.193709
5030727	Cote Park	Chelmsford	485072	5157960	46.575039	-81.194816
5030728	Cote Park	Chelmsford	485126	5157944	46.574896	-81.194111
5030729	Cote Park	Chelmsford	485123	5157954	46.574986	-81.19415
5030730	Vaillancourt Street Playground	Chelmsford	485123	5157954	46.574986	-81.19415
5030731	Vaillancourt Street Playground	Chelmsford	485152	5157997	46.575374	-81.193773
5030732	St. Onge Playground (Irene Playground)	Chelmsford	484244	5157598	46.571762	-81.205609
5030733	St. Onge Playground (Irene Playground)	Chelmsford	484248	5157595	46.571735	-81.205557
5030734	St. Onge Playground (Irene Playground)	Chelmsford	484235	5157590	46.57169	-81.205726
5030735	Bonaventure Play (Shirley Playground)	Chelmsford	485636	5156842	46.56499	-81.187421
5030736	Bonaventure Play (Shirley Playground)	Chelmsford	485628	5156840	46.564972	-81.187525
5030737	Northend Playground	Chelmsford	490498	5160260	46.595836	-81.124052
5030738	Northend Playground	Chelmsford	490471	5160238	46.595638	-81.124404
5030739	Northend Playground	Chelmsford	490507	5160172	46.595044	-81.123933
5030740	Birchview Playground	Azilda	492485	5154594	46.54487	-81.098019
5030741	Birchview Playground	Azilda	492494	5154605	46.54497	-81.097902
5030742	Rick McDonald Memorial (Champlain Fields)	Azilda	490687	5155498	46.552983	-81.121489
5030743	Rick McDonald Memorial (Champlain Fields)	Azilda	490664	5155469	46.552722	-81.121788
5030744	Rick McDonald Memorial (Champlain Fields)	Azilda	490753	5155490	46.552912	-81.120628
5030745	Rick McDonald Memorial (Champlain Fields)	Azilda	490776	5155461	46.552652	-81.120327
5030746	Rick McDonald Memorial (Champlain Fields)	Azilda	490723	5155524	46.553218	-81.12102
5030747	Rick McDonald Memorial (Champlain Fields)	Azilda	490698	5155571	46.553641	-81.121347
5030748	Rick McDonald Memorial (Champlain Fields)	Azilda	490673	5155600	46.553901	-81.121673
5030749	Rick McDonald Memorial (Champlain Fields)	Azilda	490751	5155561	46.553551	-81.120655
5030750	Shawn St Playground	Azilda	490495	5155626	46.554133	-81.123996
5030751	Shawn St Playground	Azilda	490490	5155605	46.553944	-81.124061
5030752	Gauthier Playground (Commercial Playground)	Azilda	490879	5156468	46.561716	-81.119003
5030753	Gauthier Playground (Commercial Playground)	Azilda	490883	5156451	46.561563	-81.118951
5030754	Trillium Centre	Azilda	489941	5155954	46.557076	-81.13123
5030755	Whitewater Lake Park (Centennial Park)	Azilda	489816	5154478	46.543791	-81.132829
5030756	Whitewater Lake Park (Centennial Park)	Azilda	489838	5154582	46.544728	-81.132544
5030757	Whitewater Lake Park (Centennial Park)	Azilda	489724	5154556	46.544492	-81.13403
5030758	Whitewater Lake Park (Centennial Park)	Azilda	489792	5154469	46.54371	-81.133141

Table C6: Park Sampling Station Coordinates			(Map Datum NAD 83, accurate to ±30 metres)			
Station	Park	Community	Easting	Northing	Latitude	Longitude
5030759	Capreol Centennial Park	Capreol	506119	5171985	46.701392	-80.919959
5030760	Capreol Centennial Park	Capreol	506092	5172057	46.702041	-80.920311
5030761	Capreol Centennial Park	Capreol	506101	5171941	46.700997	-80.920195
5030762	Capreol Centennial Park	Capreol	506111	5172091	46.702346	-80.920062
5030763	Capreol Centennial Park	Capreol	505960	5171936	46.700953	-80.922039
5030764	Doug Mohn's Playground (Capreol Centennial Park)	Capreol	506196	5172026	46.701761	-80.918951
5030765	Doug Mohn's Playground (Capreol Centennial Park)	Capreol	506202	5172016	46.701671	-80.918873
5030766	Cenotaph Park & Gazebo	Capreol	505927	5172479	46.70584	-80.922464
5030767	Prescott Park	Capreol	505825	5172813	46.708846	-80.923794
5030768	Capreol Public Beach	Capreol	505611	5172732	46.708119	-80.926595
5030769	Capreol Public Beach	Capreol	505630	5172700	46.707831	-80.926347
5030770	McNicol Playground	Capreol	505958	5173072	46.711176	-80.922051
5030771	McNicol Playground	Capreol	505958	5173075	46.711203	-80.922051
5030772	Dunn Park	Capreol	506359	5172993	46.710461	-80.916805
5030773	Dunn Park	Capreol	506359	5172970	46.710254	-80.916806
5030774	Norman Rec Lions Playground (Capreol Lion's Den)	Capreol	505592	5173610	46.716021	-80.926833
5030775	Norman Rec Lions Playground (Capreol Lion's Den)	Capreol	505593	5173529	46.715292	-80.92682
5030776	Ella Lake Park	Capreol	509844	5173240	46.712642	-80.871206
5030777	Ella Lake Park	Capreol	509854	5173223	46.712489	-80.871076
5030778	Ella Lake Park	Capreol	509703	5173183	46.712131	-80.873052
5030779	Den Lou Playground	Whitefish	471519	5135074	46.36864	-81.370285
5030780	Den Lou Playground	Whitefish	471526	5135045	46.36838	-81.370192
5030781	Camp Wassakwa	Whitefish	471172	5136930	46.385329	-81.37491
5030782	Camp Wassakwa	Whitefish	470948	5136759	46.38378	-81.377813
5030783	Whitefish Playground	Whitefish	476429	5136373	46.38052	-81.306516
5030784	Whitefish Playground	Whitefish	476392	5136352	46.380329	-81.306996
5030785	Downe Playground	Sudbury New	503920	5150983	46.512404	-80.948901
5030786	Downe Playground	Sudbury New	503875	5150968	46.512269	-80.949488
5030787	Downe Playground	Sudbury New	503906	5150941	46.512026	-80.949084
5030788	Downe Playground	Sudbury New	503882	5150906	46.511711	-80.949397
5030789	Lynwood Playground	Sudbury New	503827	5151413	46.516274	-80.95011
5030790	Lynwood Playground	Sudbury New	503842	5151429	46.516418	-80.949914
5030791	Ridgemount Playground	Sudbury East	507573	5148652	46.491395	-80.901321
5030792	Ridgemount Playground	Sudbury East	507596	5148689	46.491727	-80.901021
5030793	Ridgemount Playground	Sudbury East	507616	5148657	46.491439	-80.900761
5030794	East End Playground	Sudbury East	506821	5148488	46.489927	-80.911122
5030795	East End Playground	Sudbury East	506800	5148495	46.48999	-80.911396
5030796	Grace Playground	Sudbury East	505380	5148362	46.488806	-80.9299
5030797	Grace Playground	Sudbury East	505402	5148368	46.48886	-80.929613
5030798	Grace Playground	Sudbury East	505403	5148450	46.489598	-80.929599
5030799	Grace Playground	Sudbury East	505379	5148436	46.489472	-80.929912
5030800	4th Ave Playground	Levack	470310	5165448	46.641934	-81.387943
5030801	4th Ave Playground	Levack	470305	5165480	46.642222	-81.38801
5030802	Levack Ball Park	Levack	469972	5165305	46.640632	-81.39235
5030803	Levack Ball Park	Levack	470023	5165266	46.640284	-81.391681
5030804	Levack Ball Park	Levack	470016	5165306	46.640643	-81.391775
5030805	Larch St Playground	Levack	469718	5165955	46.64647	-81.395711
5030806	Larch St Playground	Levack	469716	5165968	46.646587	-81.395738
5030807	Gill Loop Playground	Onaping Falls	468262	5163600	46.62521	-81.414575
5030808	Gill Loop Playground	Onaping Falls	468243	5163600	46.625209	-81.414823
5030809	Fraser Park (Onaping Tot Lot)	Onaping Falls	468627	5163508	46.624399	-81.409801

Table C6: Park Sampling Station Coordinates			(Map Datum NAD 83, accurate to ±30 metres)			
Station	Park	Community	Easting	Northing	Latitude	Longitude
5030810	Onaping Community Centre	Onaping Falls	468057	5163015	46.619936	-81.417212
5030811	Onaping Community Centre	Onaping Falls	467998	5163025	46.620023	-81.417983
5030812	Onaping Community Centre	Onaping Falls	468045	5163044	46.620196	-81.417371
5030813	A.Y. Jackson Memorial Park	Dowling	470846	5159433	46.587828	-81.38056
5030814	Gerard St Playground	Dowling	473786	5159513	46.588669	-81.342188
5030815	Douglas St Playground	Dowling	474695	5159836	46.591611	-81.33034
5030816	Douglas St Playground	Dowling	474689	5159853	46.591763	-81.330419
5030817	Douglas St Playground	Dowling	474702	5159849	46.591728	-81.330249
5030818	Dowling Ballfields	Dowling	474118	5159039	46.584416	-81.337828
5030819	Dowling Ballfields	Dowling	474097	5159064	46.58464	-81.338103
5030820	Dowling Ballfields	Dowling	474191	5159042	46.584446	-81.336875
5030821	Dowling Ballfields	Dowling	474212	5159072	46.584717	-81.336603
5030822	Nickel Basin Playground	Chelmsford	479501	5156896	46.565317	-81.267472
5030823	Nickel Basin Playground	Chelmsford	479515	5156911	46.565452	-81.26729
5030824	Vermillion Lake Road Park	Chelmsford	473177	5152992	46.529961	-81.34976
5030825	Vermillion Lake Road Park	Chelmsford	473184	5153119	46.531104	-81.349676
5030826	Vermillion Lake Road Park	Chelmsford	473163	5153061	46.530581	-81.349947
5030827	Vermillion Lake Road Park	Chelmsford	473150	5153048	46.530463	-81.350115
5030828	Larchmount Dr Playground	Chelmsford	471384	5155862	46.555715	-81.373317
5030829	Larchmount Dr Playground	Chelmsford	471382	5155859	46.555688	-81.373342
5030830	Fireman Park	Chelmsford	481593	5163911	46.628507	-81.240454
5030831	Bathurst Playground	Chelmsford	483467	5157014	46.566488	-81.215728
5030832	Bathurst Playground	Chelmsford	483482	5157003	46.566389	-81.215532
5030833	Berthiaume Playground	Chelmsford	486466	5157318	46.569291	-81.176605
5030834	Berthiaume Playground	Chelmsford	486494	5157318	46.569291	-81.17624
5030835	Long Lake Playground	Sudbury South	500407	5139238	46.406715	-80.994705
5030836	Long Lake Playground	Sudbury South	500371	5139220	46.406553	-80.995173
5030837	Long Lake Playground	Sudbury South	500429	5139176	46.406157	-80.994419
5030838	Long Lake Playground	Sudbury South	500411	5139145	46.405878	-80.994653
5030839	Long Lake Playground	Sudbury South	500474	5139162	46.406031	-80.993833
5030840	Algonquin Park	Sudbury South	500338	5142568	46.436684	-80.9956
5030841	Algonquin Park	Sudbury South	500336	5142588	46.436864	-80.995626
5030842	Algonquin Park	Sudbury South	500339	5142615	46.437107	-80.995587
5030843	Algonquin Park	Sudbury South	500361	5142643	46.437359	-80.995301
5030844	McFarlane Lake Playground	Sudbury South	504578	5142452	46.435624	-80.940408
5030845	McFarlane Lake Playground	Sudbury South	504576	5142601	46.436965	-80.940433
5030846	McFarlane Lake Playground	Sudbury South	504544	5142578	46.436758	-80.940849
5030847	Nepahwin Park	Sudbury South	500022	5144830	46.457041	-80.999714
5030848	Nepahwin Park	Sudbury South	500065	5144805	46.456816	-80.999154
5030849	Nepahwin Park	Sudbury South	500057	5144788	46.456663	-80.999258
5030850	Nepahwin Park	Sudbury South	500043	5144790	46.456681	-80.99944
5030851	Nepahwin Park	Sudbury South	500071	5144843	46.457158	-80.999075
5030852	Diorite Playground	Coppercliff	495005	5147345	46.479656	-81.065073
5030853	Diorite Playground	Coppercliff	494959	5147309	46.479332	-81.065671
5030854	Royal Can. Legion Branch 546 Playground	Lively	488809	5142561	46.436528	-81.145676
5030855	Royal Can. Legion Branch 546 Playground	Lively	488875	5142552	46.436448	-81.144817
5030856	Royal Can. Legion Branch 546 Playground	Lively	488884	5142563	46.436547	-81.1447
5030857	Royal Can. Legion Branch 546 Playground	Lively	488859	5142562	46.436538	-81.145025
5030858	Royal Can. Legion Branch 546 Playground	Lively	488841	5142556	46.436483	-81.145259
5030859	Central Park	Lively	488982	5142617	46.437035	-81.143425
5030860	Central Park	Lively	488921	5142643	46.437268	-81.14422
5030861	Long Lake Park	Lively	491841	5134090	46.360335	-81.10606
5030862	Black Lake Road Playground	Lively	489031	5139849	46.412124	-81.142723
5030863	Black Lake Road Playground	Lively	488974	5139800	46.411683	-81.143463

Table C6: Park Sampling Station Coordinates			(Map Datum NAD 83, accurate to ± 30 metres)			
Station	Park	Community	Easting	Northing	Latitude	Longitude
5030864	Pineheights Playground	Lively	488238	5139707	46.410833	-81.153037
5030865	Pineheights Playground	Lively	488252	5139733	46.411067	-81.152856
5030877	Beaver Lake Playground	Lively	461405	5130857	46.330188	-81.501427
5030878	Beaver Lake Playground	Lively	461387	5130842	46.330052	-81.501659
5030879	Theresa Playground (Hanmer Playground)	Hanmer	504698	5165664	46.644519	-80.938611
5030880	Theresa Playground (Hanmer Playground)	Hanmer	504740	5165638	46.644285	-80.938062
5030881	St Joseph Ball Park (Lion's Playground)	Hanmer	503915	5166726	46.654082	-80.948833
5030882	St Joseph Ball Park (Lion's Playground)	Hanmer	503917	5166761	46.654397	-80.948807
5030883	St Joseph Ball Park (Lion's Playground)	Hanmer	503844	5166760	46.654388	-80.949761
5030884	St Joseph Ball Park (Lion's Playground)	Hanmer	503850	5166658	46.65347	-80.949684
5030885	St Joseph Ball Park (Lion's Playground)	Hanmer	503877	5166693	46.653785	-80.94933
5030886	Farmdale Playground	Hanmer	502864	5167179	46.658164	-80.962567
5030887	Farmdale Playground	Hanmer	502826	5167172	46.658101	-80.963063
5030888	Farmdale Playground	Hanmer	502839	5167198	46.658335	-80.962893
5030889	Farmdale Playground	Hanmer	502851	5167220	46.658533	-80.962736
5030890	Farmdale Playground	Hanmer	502907	5167193	46.658289	-80.962004
5030891	Farmdale Playground	Hanmer	502937	5167218	46.658514	-80.961612
5030892	Centennial Ballpark	Hanmer	503158	5166186	46.649226	-80.958731
5030893	Centennial Ballpark	Hanmer	503181	5166212	46.64946	-80.95843
5030894	Centennial Ballpark	Hanmer	503077	5166116	46.648596	-80.95979
5030895	Centennial Ballpark	Hanmer	503045	5166141	46.648822	-80.960208
5030896	Centennial Ballpark	Hanmer	503126	5166035	46.647867	-80.95915
5030897	Centennial Ballpark	Hanmer	503107	5165992	46.64748	-80.959398
5030898	Elmview Playground	Hanmer	501037	5166075	46.648234	-80.986449
5030899	Elmview Playground	Hanmer	501045	5166056	46.648063	-80.986344
5030900	Elmview Playground	Hanmer	501093	5166102	46.648477	-80.985717
5030901	Elmview Playground	Hanmer	501067	5166070	46.648189	-80.986057
5030902	Mederic Park	Hanmer	500679	5165686	46.644733	-80.991127
5030903	Rose Court Park	Hanmer	499740	5165131	46.639739	-81.003397
5030904	Rose Court Park	Hanmer	499758	5165122	46.639658	-81.003162
5030905	Rose Court Park	Hanmer	499737	5165122	46.639658	-81.003436
5030906	Valley Acres Playground	Hanmer	499521	5165994	46.647505	-81.006259
5030907	Valley Acres Playground	Hanmer	499497	5165996	46.647523	-81.006573
5030908	Valley Acres Playground	Hanmer	499540	5165970	46.647289	-81.006011
5030909	Centennial Park	Whitefish	478334	5137593	46.391563	-81.2818
5030910	Centennial Park	Whitefish	478350	5137575	46.391402	-81.281591
5030911	Centennial Park	Whitefish	478201	5137530	46.390992	-81.283527
5030912	R.H. Murray Sports Complex	Whitefish	475689	5136487	46.381519	-81.316145
5030913	R.H. Murray Sports Complex	Whitefish	475699	5136518	46.381799	-81.316016
5030914	Simon Lake Park	Naughton	484262	5138429	46.399251	-81.204726
5030915	Simon Lake Park	Naughton	484218	5138457	46.399502	-81.205299
5030916	Simon Lake Park	Naughton	484246	5138436	46.399313	-81.204934
5030917	Simon Lake Park	Naughton	484237	5138482	46.399727	-81.205053
5030918	Oja Sports Complex (Simon Lake Sports Complex)	Naughton	483795	5138087	46.396162	-81.210789
5030919	Oja Sports Complex (Simon Lake Sports Complex)	Naughton	483795	5138047	46.395802	-81.210788
5030920	Oja Sports Complex (Simon Lake Sports Complex)	Naughton	483680	5138030	46.395646	-81.212283
5030921	Oja Sports Complex (Simon Lake Sports Complex)	Naughton	483689	5137994	46.395322	-81.212165
5030922	Oja Sports Complex (Simon Lake Sports Complex)	Naughton	483703	5138074	46.396043	-81.211985
5030923	Oja Sports Complex (Simon Lake Sports Complex)	Naughton	483696	5138079	46.396087	-81.212076

Table C6: Park Sampling Station Coordinates			(Map Datum NAD 83, accurate to ±30 metres)			
Station	Park	Community	Easting	Northing	Latitude	Longitude
5030924	Naughton Ballfield	Naughton	485237	5139009	46.404493	-81.192061
5030925	Naughton Ballfield	Naughton	485220	5138976	46.404195	-81.192281
5030926	Goodwill Playground	Lively	488933	5140544	46.418378	-81.144014
5030927	Goodwill Playground	Lively	488962	5140544	46.418378	-81.143637
5030928	Meatbird Lake Park	Lively	488360	5144030	46.449741	-81.151557
5030929	Meatbird Lake Park	Lively	488389	5144063	46.450038	-81.151181
5030930	Meatbird Lake Park	Lively	488401	5144057	46.449984	-81.151024
5030931	Meatbird Lake Park	Lively	488425	5144055	46.449967	-81.150712
5030932	B Street Ballfield (George Vanier)	Lively	488869	5142782	46.438518	-81.1449
5030933	B Street Ballfield (George Vanier)	Lively	488884	5142747	46.438203	-81.144704
5030934	Hillcrest Sports Centre	Lively	490818	5141201	46.424319	-81.119498
5030935	Hillcrest Sports Centre	Lively	490711	5141274	46.424974	-81.120892
5030936	Hillcrest Sports Centre	Lively	490789	5141282	46.425047	-81.119877
5030937	Hillcrest Sports Centre	Lively	490639	5141273	46.424964	-81.121829
5030938	Hillcrest Sports Centre	Lively	490532	5141305	46.425251	-81.123222
5030939	Hillcrest Sports Centre	Lively	490530	5141273	46.424963	-81.123247
5030940	Fielding Memorial Park Complex	Lively	492652	5141366	46.425826	-81.095632
5030941	Fielding Memorial Park Complex	Lively	492634	5141346	46.425646	-81.095866
5030942	Fielding Memorial Park Complex	Lively	492609	5141368	46.425844	-81.096192
5030943	Howard Armstrong Rec Centre	Hanmer	505300	5152686	46.527721	-80.930893
5030944	Howard Armstrong Rec Centre	Hanmer	501204	5165099	46.63945	-80.984269
5030945	Howard Armstrong Rec Centre	Hanmer	501265	5165096	46.639423	-80.983472
5030946	Howard Armstrong Rec Centre	Hanmer	501273	5165192	46.640287	-80.983367
5030947	Howard Armstrong Rec Centre	Hanmer	501175	5165202	46.640377	-80.984647
5030948	Ray St Playground	Wahnapiatae	516321	5147296	46.479036	-80.78738
5030949	Lake Laurentian Conservation Area	Sudbury South	503331	5144319	46.452434	-80.956627
5030950	Lake Laurentian Conservation Area	Sudbury South	503440	5145383	46.462009	-80.9552
5030951	Lake Laurentian Conservation Area	Sudbury South	505132	5145409	46.462232	-80.933164
5030952	Lake Laurentian Conservation Area	Sudbury South	504067	5144601	46.454968	-80.947041
5030953	Lawson St Playground	Sudbury Core	498805	5146771	46.474508	-81.015566
5030954	Lawson St Playground	Sudbury Core	498802	5146779	46.47458	-81.015606
5030955	Copper St Playground	Sudbury South	498016	5146171	46.469106	-81.025842
5030956	Copper St Playground	Sudbury South	498017	5146177	46.46916	-81.025829
5030957	Copper St Playground	Sudbury South	498005	5146211	46.469466	-81.025985
5030958	V.L.A. Playground	Lively	487459	5139336	46.40748	-81.163163
5030959	V.L.A. Playground	Lively	487464	5139307	46.407219	-81.163097
5030960	MacLennan Playground (Silver Birch Playground)	Skead	519376	5169314	46.677103	-80.746661
5030961	MacLennan Playground (Silver Birch Playground)	Skead	519383	5169317	46.67713	-80.746569
5030962	Skead Community Centre	Skead	518900	5167656	46.662196	-80.752952
5030963	Skead Community Centre	Skead	518872	5167635	46.662008	-80.753319
5030964	Skead Community Centre	Skead	518892	5167686	46.662466	-80.753055
5030965	Brighton Street Playground	Skead	511531	5158574	46.580631	-80.849501
5030966	Brighton Street Playground	Skead	511539	5158583	46.580712	-80.849396
5030967	Brighton Street Playground	Skead	511511	5158575	46.580641	-80.849762

City of Greater Sudbury 2001 Urban Soil Survey

Appendix D

Commercial Produce and Wild Blueberry Soil and Vegetation Sampling Results

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1. METHODS

During the period of July and August of 2001, soil and produce samples were collected from seven commercial berry farms, three wild blueberry patches, and six commercial market garden produce growers within the City of Greater Sudbury. At each site produce was collected in duplicate if enough produce was available and soil was collected from the vicinity in which the produce was grown (MOE 1993). Soil was sampled in duplicate and since these areas are cultivated on a regular basis, soil cores of 0 to 15 cm were taken (MOE 1993). In areas with shallow bedrock, soil samples of 0 to 10 cm were taken. All vegetation samples were kept on ice during transportation and shipping. It should be noted that most berry samples, especially strawberries and raspberries, were collected late in the season and were therefore extremely ripe. In order to collect samples large enough for duplicate analysis it was necessary to sample from large areas of the farms, some of which had closed for the season.

Vegetation samples were delivered to the MOE Phytotoxicology laboratory for processing (MOE 2000b). The protocol for vegetation processing includes washing the produce with tap water as would be done in the home prior to consumption. All produce samples were treated in this fashion with the exception of the berries. Berry samples could not be washed due to their over ripeness (ie. some had become almost liquified during shipping). Instead, the berry samples were poured into beakers, were oven dried, and ground in a Wiley™ mill. The chopped washed vegetables were oven dried and ground in the same fashion. The ground material was then stored in glass jars until submitted for analysis. All produce samples were forwarded to Laboratory Services Branch, MOE, for chemical analysis including: arsenic(As), aluminum (Al), barium (Ba), beryllium (Be), calcium (Ca), cadmium (Cd), cobalt (Co), copper (Cu), chromium (Cr), iron (Fe), magnesium (Mg), manganese (Mn), molybdenum (Mo), nickel (Ni), lead (Pb), selenium (Se), strontium (Sr), vanadium (V), and zinc (Zn). In addition, the vegetation analytical suite included sulphur (S), boron (B), chlorine (Cl), and potassium (K).

Soil samples were delivered to the MOE Phytotoxicology laboratory where they were organized and shipped to Agat Laboratories for processing (MOE 2000, Appendix F). Agat followed MOE Standard Operating Procedures which included air drying and sieving samples to obtain the 2 mm size fraction, and then further grinding the sample using a mortar and pestle to pass through a Number 45 mesh (0.355 mm) sieve (MOE 2000). Finally, the ground material was stored in glass jars. All soil samples were sent to Lakefield Laboratory for the same parameter analyses as the vegetation, except for S, B, Cl, and K. MOE data management and quality control procedures for both sample processing and metals analysis carried out by contract laboratories is outlined in Appendix F.

Interpretation of the produce results was based on comparisons with data from the following control locations: 2 control locations for raspberries, 1 control location for strawberries, and blueberries, and 1 market garden control station. Control sites were chosen based on current knowledge of the range and extent of elevated soil metal levels in the Sudbury area and were located approximately 125 km and 245 km west and 70 km northwest of the Copper Cliff superstack. Soil data were compared with the MOE Table F Soil Background Guidelines and Table A Soil Clean-up Guidelines (MOE 1997).

2. ANALYTICAL RESULTS SUMMARIES

Table D2.1: Summary Statistics for 0-15 cm Soil Samples from Market Gardens in the City of Greater Sudbury - 2001.

	Al	Sb	As	Ba	Be	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Mo	Ni	Se	Sr	V	Zn
Minimum	5300	0.4	2.5	19	0.3	0.4	2600	16	3	26	8500	5	1700	100	0.75	27	0.5	13	18	19
10th	6080	0.4	2.5	24	0.3	0.4	2690	17	4	28	9430	5	1700	110	0.75	35	0.5	16	20	20
1st quartile	6400	0.4	5.0	27	0.3	0.4	3000	19	4	31	10000	7	1800	120	0.75	38	0.5	17	22	22
Median	7750	0.4	6.0	29	0.3	0.4	3650	21	4	35	10000	8	1900	125	0.75	44	0.5	19	23	27
3rd quartile	9350	0.4	7.0	32	0.3	0.4	3950	23	4	42	11000	10	2100	150	0.75	50	0.5	28	25	30
95th	11000	0.4	9.0	39	0.3	0.5	4820	25	5	44	12050	13	2310	201	0.75	59	0.5	34	28	34
Maximum	11000	0.4	9.0	44	0.3	1.9	5200	26	5	46	13000	17	2500	220	0.75	62	0.5	36	28	43
Mean	7830	0.4	5.7	29	0.3	0.5	3595	21	4	36	10390	9	1960	139	0.75	44	0.5	21	23	27
Geometric mean	7651	0.4	5.3	29	0.3	0.4	3528	20	4	35	10339	8	1948	135	0.75	43	0.5	20	23	26
Sample standard deviation	1694	0.0	2.0	6	0.0	0.3	702	3	0	6	1046	3	224	32	0.00	9	0.0	7	3	6
CV (standard deviation/mean)	22%	0%	36%	20%	0%	71%	20%	14%	11%	17%	10%	36%	12%	24%	0%	21%	0%	32%	11%	23%
Lower bound CI for the mean	7016	0.4	4.7	27	0.3	0.3	3258	19	4	33	9888	7	1852	123	0.75	39	0.5	18	22	24
Upper bound CI for the mean	8644	0.4	6.7	32	0.3	0.6	3932	22	4	39	10892	10	2068	154	0.75	48	0.5	25	24	29
Kurtosis	-1.0		-0.7	1.9		20.0	0.0	-0.9	3.0	-1.2	0.8	1.4	0.0	1.2		-0.2		-0.4	-0.2	1.1
Skewness	0.4		-0.2	0.6		4.5	0.5	0.0	0.0	0.1	0.7	1.1	0.8	1.4		0.2		0.9	0.1	0.9

There were 20 samples. Concentrations are in µg/g dry wt. ng - no guideline

Note: the standard-deviation and the confidence interval of the mean are valid only in the case of a simple random sampling

Table D2.2: Summary Statistics for 0-15 cm Soil Samples from Commercial Berry Producers in the City of Greater Sudbury - 2001.

	Al	Sb	As	Ba	Be	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Mo	Ni	Se	Sr	V	Zn
Minimum	5900	0.4	2.5	18	0.3	0.4	550	13	3	20	7100	7	790	35	0.75	29	0.5	10	14	11
10th	6320	0.4	2.5	22	0.3	0.4	1420	14	3	22	7810	7	957	64	0.75	31	0.5	10	17	14
1st quartile	6650	0.4	2.5	24	0.3	0.4	1800	18	3	25	8400	7	1350	78	0.75	33	0.5	10	18	15
Median	7300	0.4	5.0	27	0.3	0.4	2100	19	4	29	9100	8	1600	110	0.75	39	0.5	10	19	18
3rd quartile	8200	0.4	7.0	33	0.3	0.4	2900	21	4	35	9950	10	1800	130	0.75	42	0.5	11	20	24
95th	12800	0.4	9.5	36	0.3	0.4	4595	26	5	51	15700	17	2635	170	0.75	50	1.0	15	22	33
Maximum	16000	0.4	10	39	0.3	0.4	5800	27	5	72	21000	18	2900	180	0.75	52	1.0	17	23	39
Mean	7903	0.4	5.0	28	0.3	0.4	2411	19	4	31	9759	9	1660	106	0.75	39	0.5	11	19	20
Geometric mean	7680	0.4	4.5	27	0.3	0.4	2171	19	4	30	9473	9	1583	99	0.75	38	0.5	11	19	19
Sample standard deviation	2210	0.0	2.4	5	0.0	0.0	1096	4	1	11	2862	3	515	37	0.00	6	0.1	2	2	7
CV (standard deviation/mean)	28%	0%	49%	20%	0%	0%	46%	19%	18%	36%	30%	35%	32%	35%	0%	17%	27%	17%	10%	34%
Lower bound CI for the mean	7093	0.4	4.2	26	0.3	0.4	2010	18	4	27	8711	8	1472	93	0.75	36	0.5	10	18	18
Upper bound CI for the mean	8713	0.4	5.9	30	0.3	0.4	2813	20	4	35	10808	10	1849	119	0.75	41	0.6	12	20	23
Kurtosis	7.5		-1.0	-0.8			2.5	0.4	-0.7	6.4	9.6	2.2	0.4	-0.5		-0.5	7.0	3.5	0.7	0.6
Skewness	2.7		0.4	0.1			1.3	0.6	0.3	2.4	3.0	1.8	0.7	0.1		0.5	2.9	2.1	-0.1	1.1

There were 32 samples. Concentrations are in µg/g dry wt. ng - no guideline

Note: the standard-deviation and the confidence interval of the mean are valid only in the case of a simple random sampling

Table D2.3: Summary Statistics for 0-15 cm Soil Samples from Wild Blueberry Sites in the City of Greater Sudbury - 2001.

	Al	Sb	As	Ba	Be	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Mo	Ni	Se	Sr	V	Zn
Minimum	6400	0.4	33	24	0.3	0.4	610	16	6	120	10000	17	1100	110	0.75	77	0.5	10	18	16
Median	9250	0.7	36	39	0.3	0.4	905	25	11	225	16500	23	2300	180	0.75	179	2.0	12	31	33
Maximum	13000	1.0	39	51	0.3	0.4	1200	33	15	400	25000	32	3600	230	0.75	290	3.0	14	43	49
Mean	9475	0.7	36	38	0.3	0.4	905	25	11	243	17000	24	2325	175	0.75	181	1.9	12	31	33
Geometric mean	8975	0.6	36	36	0.3	0.4	870	23	10	217	15485	23	1976	167	0.75	154	1.5	12	28	28
Sample standard deviation	3046	0.3	3	12	0.0	0.0	250	9	4	111	7036	6	1226	51	0.00	95	1.1	2	12	17
CV (standard deviation/mean)	37%	49%	8%	36%	0%	0%	32%	40%	44%	53%	48%	27%	61%	34%	0%	60%	70%	18%	45%	59%

There were 4 samples. Concentrations are in µg/g dry wt.

Note: the standard-deviation and the confidence interval of the mean are valid only in the case of a simple random sampling

Table D2.4: Summary Statistics for All Market Garden Vegetables Collected in the City of Greater Sudbury - 2001.

	Al	Sb	As	Ba	Be	B	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Mo	Ni	Se	Sr	V	Zn
Minimum	5.0	0.2	0.2	0.5	0.2	6.0	0.1	220	0.5	0.2	4.0	23	0.5	1100	3.7	0.2	0.5	0.2	0.5	0.5	12
10th percentile	5.0	0.2	0.2	0.6	0.2	7.6	0.1	319	0.5	0.2	6.1	36	0.5	1130	8.1	0.2	1.0	0.2	0.8	0.5	14
1st quartile	9.0	0.2	0.2	1.0	0.2	13	0.1	1050	0.5	0.2	7.8	58	0.5	1450	9.7	0.2	3.3	0.2	1.2	0.5	19
Median	40	0.2	0.2	4.8	0.2	16	0.2	2700	0.5	0.2	9.5	98	0.5	2550	22	0.3	6.0	0.2	6.8	0.5	30
3rd quartile	110	0.2	0.2	14	0.2	19	0.4	4650	0.7	0.5	11	185	0.5	3700	56	0.7	15	0.2	12	0.5	33
95th percentile	360	0.2	0.6	40	0.2	26	1.8	11000	1.1	1.1	16	378	0.9	6410	176	1.1	43	0.2	30	0.9	48
Maximum	1200	0.2	1.0	92	0.2	28	2.3	14000	3.4	1.1	17	1300	3.1	15000	230	2.6	45	0.2	43	2.9	61
Mean	112	0.2	0.3	12	0.2	16	0.4	3799	0.7	0.4	9.9	162	0.6	3107	45	0.5	11	0.2	9.0	0.6	28
Geometric mean	39	0.2	0.2	4.4	0.2	15	0.2	2180	0.6	0.3	9.4	104	0.5	2482	24	0.4	6.0	0.2	4.9	0.5	26
Sample standard deviation	213	0.0	0.2	17	0.0	5.8	0.6	3688	0.5	0.3	3.2	221	0.4	2642	56	0.5	12	0.0	9.1	0.4	11
CV (standard deviation/mean)	192%	0%	63%	151%	0%	36%	133%	98%	71%	75%	33%	138%	68%	86%	125%	104%	110%	0%	103%	70%	41%
Lower bound CI for the mean	46	0.2	0.2	6	0.2	14	0.3	2665	0.5	0.3	9.0	94	0.5	2294	28	0.3	7.2	0.2	6.2	0.5	25
Upper bound CI for the mean	177	0.2	0.3	17	0.2	18	0.6	4933	0.8	0.5	11	230	0.7	3919	62	0.7	14	0.2	12	0.7	32
Kurtosis	16.9		12.6	10.4		-0.5	3.7	0.9	24.0	0.7	-0.5	17.1	37.6	10.8	2.5	8.7	2.9		4.1	24.0	0.6
Skewness	3.9		3.5	2.9		0.0	2.1	1.3	4.6	1.4	0.5	3.9	6.0	3.0	1.8	2.8	1.8		1.9	4.8	0.7

There were 44 samples collected from 6 market vegetable producers. Concentrations are in µg/g dry wt.

Note: the standard-deviation and the confidence interval of the mean are valid only in the case of a simple random sampling

Table D2.4.1: Summary Statistics for Market Garden Fruit Vegetables Collected in the City of Greater Sudbury - 2001.

	Al	Sb	As	Ba	Be	B	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Mo	Ni	Se	Sr	V	Zn
Minimum	5.0	0.2	0.2	0.5	0.2	11	0.1	380	0.5	0.2	4.0	23	0.5	1100	7.1	0.2	0.5	0.2	0.5	0.5	12
10th percentile	5.0	0.2	0.2	0.6	0.2	13	0.1	930	0.5	0.2	5.8	32	0.5	1410	9.0	0.2	1.6	0.2	1.0	0.5	14
1st quartile	5.0	0.2	0.2	1.5	0.2	14	0.1	1500	0.5	0.2	6.7	51	0.5	1700	13	0.3	3.3	0.2	3.6	0.5	19
Median	9.0	0.2	0.2	4.1	0.2	16	0.1	3150	0.5	0.2	8.8	67	0.5	2750	18	0.4	8.6	0.2	5.5	0.5	30
3rd quartile	35	0.2	0.2	7.4	0.2	19	0.1	4400	0.5	0.4	11	96	0.5	3400	25	0.7	18	0.2	9.2	0.5	40
95th percentile	58	0.2	0.2	14	0.2	26	0.4	4795	0.8	1.1	14	186	0.5	3795	85	2.2	45	0.2	13	0.5	56
Maximum	120	0.2	0.2	14	0.2	27	0.5	5100	0.8	1.1	14	200	0.5	3900	93	2.6	45	0.2	14	0.5	61
Mean	24	0.2	0.2	5.0	0.2	17	0.1	2912	0.6	0.4	8.9	78	0.5	2568	27	0.6	14	0.2	6.4	0.5	30
Geometric mean	14	0.2	0.2	3.2	0.2	17	0.1	2428	0.5	0.3	8.5	67	0.5	2390	20	0.5	7.5	0.2	4.5	0.5	27
Sample standard deviation	27	0.0	0.0	4.0	0.0	4	0.1	1450	0.1	0.3	2.6	44	0.0	910	24	0.6	15	0.0	4.2	0.0	14
CV (standard deviation/mean)	114%	0%	0%	83%	0%	26%	73%	51%	19%	78%	30%	58%	0%	36%	91%	102%	107%	0%	67%	0%	46%
Lower bound CI for the mean	12.0	0.2	0.2	3.1	0.2	15	0.1	2254	0.5	0.3	7.7	58	0.5	2155	16	0.3	7.5	0.2	4.5	0.5	24
Upper bound CI for the mean	36.6	0.2	0.2	6.8	0.2	19	0.2	3570	0.6	0.5	10	97	0.5	2981	37	0.9	21	0.2	8.3	0.5	37
Kurtosis	5.8			0.2		0.0	6.7	-1.3	1.0	1.4	-0.4	3.0		-1.5	3.0	5.9	0.2		-1.1		-0.2
Skewness	2.2			0.9		0.9	2.7	-0.2	1.6	1.6	0.2	1.6		-0.1	1.9	2.5	1.2		0.2		0.7

22 of the 44 vegetable samples collected were fruit vegetables. Concentrations are in µg/g dry wt.

Note: the standard-deviation and the confidence interval of the mean are valid only in the case of a simple random sampling

Table D2.4.2: Summary Statistics for Market Garden Leafy Vegetables Collected in the City of Greater Sudbury - 2001.

	Al	Sb	As	Ba	Be	B	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Mo	Ni	Se	Sr	V	Zn
Minimum	31	0.2	0.2	3.1	0.2	14	0.3	8300	0.5	0.2	11	92	0.5	3800	23	0.2	3.2	0.2	9.7	0.5	28
10th percentile	66	0.2	0.2	4.4	0.2	16	0.3	9280	0.5	0.2	11	119	0.5	4220	27	0.2	5.0	0.2	11	0.5	29
1st quartile	96	0.2	0.3	9.0	0.2	18	0.4	9800	0.6	0.3	12	155	0.5	4450	70	0.2	6.0	0.2	12	0.5	30
Median	170	0.2	0.4	19	0.2	19	1.6	10500	0.8	0.6	15	255	0.5	5300	150	0.2	8.6	0.2	22	0.5	33
3rd quartile	540	0.2	0.7	45	0.2	21	2.0	12000	1.4	0.9	16	580	1.0	9250	180	0.7	16	0.2	31	1.3	34
95th percentile	1053	0.2	0.9	80	0.2	24	2.2	13650	2.9	1.0	17	1143	2.4	13950	213	1.0	17	0.2	39	2.6	38
Maximum	1200	0.2	1.0	92	0.2	25	2.3	14000	3.4	1.1	17	1300	3.1	15000	230	1.1	17	0.2	43	2.9	40
Mean	355	0.2	0.5	30	0.2	19	1.3	10863	1.2	0.6	14	422	0.9	7100	132	0.4	10	0.2	23	1.0	33
Geometric mean	193	0.2	0.4	18	0.2	19	1.0	10729	0.9	0.5	14	287	0.7	6287	103	0.3	8.7	0.2	20	0.8	32
Sample standard deviation	389	0.0	0.3	28	0.0	3	0.8	1733	1.0	0.3	2.1	400	0.8	3856	69	0.3	5.0	0.0	11	0.8	3
CV (standard deviation/mean)	117%	0%	59%	102%	0%	17%	65%	17%	88%	56%	16%	101%	96%	58%	56%	82%	53%	0%	53%	91%	11%
Lower bound CI for the mean	6.9	0.2	0.2	4.4	0.2	16	0.6	9312	0.3	0.3	12	64	0.2	3652	70	0.1	5.6	0.2	13	0.2	29
Upper bound CI for the mean	704	0.2	0.7	55	0.2	22	2.0	12413	2.0	0.9	16	779	1.7	10548	193	0.7	14	0.2	33	1.8	36
Kurtosis	1.6		-0.4	1.7		1.0	-2.1	-0.1	3.6	-1.1	-1.4	1.8	6.8	0.7	-0.7	0.6	-1.6		-1.0	2.2	2.2
Skewness	1.6		0.9	1.5		0.6	-0.3	0.6	2.0	0.3	-0.4	1.6	2.6	1.4	-0.6	1.4	0.3		0.5	1.8	1.1

8 of the 44 vegetable samples collected were leafy vegetables. Concentrations are in µg/g dry wt.

Note: the standard-deviation and the confidence interval of the mean are valid only in the case of a simple random sampling

Table D2.4.3: Summary Statistics for Market Garden Root Vegetables Collected in the City of Greater Sudbury - 2001.

	Al	Sb	As	Ba	Be	B	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Mo	Ni	Se	Sr	V	Zn
Minimum	15	0.2	0.2	0.5	0.2	6.0	0.1	220	0.5	0.2	5.9	26	0.5	1100	3.7	0.2	0.5	0.2	0.6	0.5	12
10th percentile	21	0.2	0.2	0.5	0.2	6.0	0.1	256	0.5	0.2	6.8	46	0.5	1100	4.8	0.2	0.6	0.2	0.6	0.5	13
1st quartile	35	0.2	0.2	0.6	0.2	7.0	0.2	310	0.5	0.2	7.8	55	0.5	1100	7.9	0.2	1.0	0.2	0.9	0.5	16
Median	96	0.2	0.2	1.1	0.2	9.0	0.3	540	0.5	0.2	8.3	130	0.5	1250	9.7	0.2	3.7	0.2	1.4	0.5	20
3rd quartile	150	0.2	0.2	25	0.2	19	0.8	2400	0.7	0.3	10	210	0.5	1900	23	0.2	11	0.2	11.0	0.5	31
95th percentile	1053	0.2	0.9	80	0.2	24	2.2	13650	2.9	1.0	17	1143	2.4	13950	213	1.0	17	0.2	39.2	2.6	38
Maximum	370	0.2	0.3	41	0.2	28	1.0	2800	1.2	1.1	16	390	0.8	3200	110	1.1	21	0.2	15.0	0.9	35
Mean	110	0.2	0.2	12	0.2	13	0.4	1156	0.6	0.3	9.2	147	0.5	1671	24	0.3	6.0	0.2	5.2	0.5	22
Geometric mean	77	0.2	0.2	3.2	0.2	11	0.3	740	0.6	0.3	8.9	115	0.5	1548	14	0.3	3.4	0.2	2.5	0.5	21
Sample standard deviation	91	0.0	0.0	13.7	0.0	7.4	0.3	993	0.2	0.2	2.7	98	0.1	712	31	0.3	5.8	0.0	5.4	0.1	8.1
CV (standard deviation/mean)	86%	0%	17%	123%	0%	58%	80%	89%	33%	80%	30%	69%	17%	44%	130%	95%	101%	0%	108%	20%	37%
Lower bound CI for the mean	56	0.2	0.2	3.3	0.2	8.7	0.2	561	0.5	0.2	7.6	89	0.5	1245	6.1	0.2	2.5	0.2	2.0	0.5	18
Upper bound CI for the mean	165	0.2	0.2	20	0.2	17	0.6	1751	0.7	0.5	11	206	0.6	2098	43	0.5	9.5	0.2	8.4	0.6	27
Kurtosis	3.6		3.8	-0.8		-0.8	-0.7	-1.5	4.9	8.2	1.9	1.1	5.4	0.5	4.2	3.4	1.5		-1.2	14.0	-1.6
Skewness	1.6		2.3	0.9		0.8	1.0	0.6	2.1	2.8	1.5	1.0	2.5	1.3	2.2	2.2	1.4		0.8	3.7	0.3

14 of the 44 vegetables samples collected were root vegetables. Concentrations are in µg/g dry wt.

Note: the standard-deviation and the confidence interval of the mean are valid only in the case of a simple random sampling

Table D2.5: Summary Statistics for All Commercial Berries and Wild Blueberries Collected in the City of Greater Sudbury - 2001.

	Al	Sb	As	Ba	Be	B	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Mo	Ni	Se	Sr	V	Zn
Minimum	5	0.2	0.2	1.0	0.2	5.0	0.1	640	0.5	0.2	2.0	13	0.5	260	5	0.2	1.4	0.2	0.9	0.5	2.0
10th percentile	5	0.2	0.2	2.0	0.2	6.0	0.1	925	0.5	0.2	2.9	20	0.5	355	12	0.2	1.6	0.2	1.0	0.5	4.0
1st quartile	5	0.2	0.2	4.0	0.2	6.0	0.1	1000	0.5	0.2	3.9	24	0.5	620	15	0.2	2.0	0.2	1.8	0.5	5.0
Median	5	0.2	0.2	5.7	0.2	7.0	0.1	1300	0.5	0.2	4.6	31	0.5	965	17	0.3	4.9	0.2	2.2	0.5	7.0
3rd quartile	9	0.2	0.2	8.9	0.2	8.5	0.1	1650	0.5	0.2	5.4	35	0.5	1050	51	0.5	6.6	0.2	3.1	0.5	13
95th percentile	15	0.2	0.2	12.3	0.2	11	0.2	1900	0.5	0.3	6.4	64	0.6	1500	101	0.8	8.5	0.2	4.8	0.5	15
Maximum	24	0.2	0.2	14.0	0.2	11	0.8	2100	0.5	0.4	6.7	160	1.1	1600	110	1.1	9.6	0.3	9.5	0.5	20
Mean	8	0.2	0.2	6.4	0.2	7.5	0.1	1330	0.5	0.2	4.6	34	0.5	903	34	0.4	4.6	0.2	2.6	0.5	8.6
Geometric mean	7	0.2	0.2	5.2	0.2	7.4	0.1	1279	0.5	0.2	4.5	30	0.5	812	24	0.3	3.9	0.2	2.3	0.5	7.5
Sample standard deviation	4.5	0.0	0.0	3.5	0.0	1.5	0.1	361	0.0	0.0	1.1	24	0.1	364	31	0.2	2.5	0.0	1.6	0.0	4.2
CV (standard deviation/mean)	61%	0%	0%	56%	0%	21%	94%	28%	0%	19%	25%	71%	20%	41%	92%	63%	54%	8%	61%	0%	50%
Lower bound CI for the mean	6	0.2	0.2	5.2	0.2	7.0	0.1	1206	0.5	0.2	4.2	26	0.5	777	23	0.3	3.8	0.2	2.1	0.5	7.2
Upper bound CI for the mean	9	0.2	0.2	7.6	0.2	8.1	0.2	1454	0.5	0.2	5.0	43	0.6	1028	45	0.4	5.5	0.2	3.1	0.5	10.1
Kurtosis	8.2			-0.7		0.1	33.0	-0.8		15.5	-0.2	20.9	30.4	-0.6	0.6	3.3	-1.2	36.0	9.2		-0.1
Skewness	2.8			0.4		0.7	5.7	0.1		3.9	-0.3	4.2	5.4	-0.1	1.4	1.8	0.1	6.0	2.5		0.6

There were 36 samples collected from 7 commercial berry producers and 3 wild blueberry sites. Concentrations are in µg/g dry wt.

Note: the standard-deviation and the confidence interval of the mean are valid only in the case of a simple random sampling

Table D2.5.1: Summary Statistics for Commercial Raspberries Collected in the City of Greater Sudbury - 2001.

	Al	Sb	As	Ba	Be	B	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Mo	Ni	Se	Sr	V	Zn
Minimum	5	0.2	0.2	1.0	0.2	5.0	0.1	930	0.5	0.2	4.1	23	0.5	900	11	0.2	4.6	0.2	0.9	0.5	9.0
10th percentile	5	0.2	0.2	1.4	0.2	6.0	0.1	1050	0.5	0.2	4.5	24	0.5	945	14	0.2	5.2	0.2	1.3	0.5	10
1st quartile	5	0.2	0.2	2.0	0.2	6.5	0.1	1250	0.5	0.2	4.6	28	0.5	970	15	0.2	5.7	0.2	1.8	0.5	11
Median	5	0.2	0.2	3.7	0.2	7.0	0.1	1500	0.5	0.2	5.1	32	0.5	1050	17	0.4	6.5	0.2	2.2	0.5	13
3rd quartile	6	0.2	0.2	5.7	0.2	9.0	0.1	1700	0.5	0.2	5.6	34	0.6	1450	37	0.5	7.7	0.2	2.9	0.5	13
95th percentile	11	0.2	0.2	7.9	0.2	11	0.3	1750	0.5	0.2	6.0	47	0.7	1525	65	1.0	9.1	0.2	6.1	0.5	18
Maximum	12	0.2	0.2	8.4	0.2	11	0.8	1900	0.5	0.3	6.2	68	1.1	1600	84	1.1	9.6	0.2	9.5	0.5	20
Mean	6	0.2	0.2	4.0	0.2	7.8	0.1	1452	0.5	0.2	5.1	33	0.6	1177	27	0.4	6.7	0.2	2.7	0.5	13
Geometric mean	6	0.2	0.2	3.2	0.2	7.6	0.1	1423	0.5	0.2	5.1	32	0.5	1153	22	0.4	6.5	0.2	2.3	0.5	12
Sample standard deviation	2.3	0.0	0.0	2.3	0.0	1.9	0.2	277	0.0	0.0	0.6	10	0.1	241	21	0.3	1.4	0.0	2.0	0.0	2.6
CV (standard deviation/mean)	38%	0%	0%	61%	0%	25%	122%	20%	0%	12%	11%	31%	27%	21%	79%	63%	22%	0%	75%	0%	21%
Lower bound CI for the mean	5	0.2	0.2	2.7	0.2	6.8	0.1	1299	0.5	0.2	4.8	27	0.5	1044	16	0.3	5.9	0.2	1.6	0.5	11
Upper bound CI for the mean	8	0.2	0.2	5.3	0.2	8.8	0.2	1604	0.5	0.2	5.4	39	0.6	1309	39	0.6	7.4	0.2	3.8	0.5	14
Kurtosis	1.6			-1.1		-0.8	16.0	-0.7		16.0	-0.6	9.4	13.3	-1.5	1.9	1.7	-0.3		8.6		2.6
Skewness	1.8			0.4		0.6	4.0	-0.5		4.0	0.2	2.7	3.6	0.5	1.7	1.5	0.6		2.7		1.4

16 raspberry samples were collected. Concentrations are in µg/g dry wt.

Note: the standard-deviation and the confidence interval of the mean are valid only in the case of a simple random sampling

Table D2.5.2: Summary Statistics for Commercial Strawberries Collected in the City of Greater Sudbury - 2001.

	Al	Sb	As	Ba	Be	B	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Mo	Ni	Se	Sr	V	Zn
Minimum	5	0.2	0.2	3.9	0.2	6.0	0.1	920	0.5	0.2	2.0	13.0	0.5	510	4.6	0.2	1.4	0.2	1.0	0.5	4.0
10th percentile	5	0.2	0.2	4.3	0.2	6.0	0.1	936	0.5	0.2	2.6	19.3	0.5	561	9.6	0.2	1.5	0.2	1.2	0.5	4.3
1st quartile	5	0.2	0.2	5.7	0.2	6.0	0.1	1000	0.5	0.2	2.8	23.0	0.5	630	13.0	0.2	1.5	0.2	1.8	0.5	5.0
Median	5	0.2	0.2	8.7	0.2	7.0	0.1	1300	0.5	0.2	3.9	26.0	0.5	850	16.5	0.3	1.9	0.2	2.8	0.5	6.0
3rd quartile	7	0.2	0.2	12.0	0.2	8.0	0.1	1700	0.5	0.2	4.5	35.0	0.5	1000	21.0	0.4	2.1	0.2	4.2	0.5	7.0
95th percentile	9	0.2	0.2	13.4	0.2	8.4	0.2	1970	0.5	0.3	6.2	97.0	0.5	1070	27.1	0.7	2.2	0.2	4.4	0.5	7.4
Maximum	11	0.2	0.2	14.0	0.2	9.0	0.2	2100	0.5	0.4	6.5	160.0	0.5	1200	29.0	0.7	2.2	0.2	4.7	0.5	8.0
Mean	6	0.2	0.2	8.6	0.2	7.2	0.1	1336	0.5	0.2	3.9	37.8	0.5	838	16.8	0.3	1.8	0.2	2.8	0.5	6.0
Geometric mean	6	0.2	0.2	7.9	0.2	7.2	0.1	1287	0.5	0.2	3.7	30.1	0.5	813	15.3	0.3	1.8	0.2	2.5	0.5	5.9
Sample standard deviation	1.8	0.0	0.0	3.3	0.0	0.9	0.0	375	0.0	0.1	1.3	35.7	0.0	199	6.5	0.2	0.3	0.0	1.2	0.0	1.2
CV (standard deviation/mean)	30%	0%	0%	40%	0%	14%	32%	29%	0%	26%	33%	98%	0%	25%	40%	51%	16%	0%	45%	0%	21%
Lower bound CI for the mean	5	0.2	0.2	6.6	0.2	6.7	0.1	1111	0.5	0.2	3.2	16.4	0.5	719	12.9	0.2	1.7	0.2	2.1	0.5	5.3
Upper bound CI for the mean	7	0.2	0.2	10.6	0.2	7.8	0.1	1560	0.5	0.3	4.7	59.2	0.5	957	20.7	0.4	2.0	0.2	3.5	0.5	6.7
Kurtosis	3.2			-1.5		-1.0	3.8	-0.6		7.7	-0.1	10.7		-0.8	-0.2	0.8	-1.6		-1.3		-0.9
Skewness	1.9			0.1		0.1	2.3	0.8		2.8	0.5	3.2		-0.2	0.2	1.3	-0.1		0.1		-0.3

14 strawberries samples were collected. Concentrations are in µg/g dry wt.

Note: the standard-deviation and the confidence interval of the mean are valid only in the case of a simple random sampling

Table D2.5.3: Summary Statistics for Wild Blueberries Collected in the City of Greater Sudbury - 2001.

	Al	Sb	As	Ba	Be	B	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Mo	Ni	Se	Sr	V	Zn
Minimum	8	0.2	0.2	4.3	0.2	5.0	0.1	640	0.5	0.2	3.7	15	0.5	260	66	0.2	4.3	0.2	0.9	0.5	2.0
10th percentile	8	0.2	0.2	4.7	0.2	5.4	0.1	664	0.5	0.2	4.1	20	0.5	260	78	0.2	4.5	0.2	1.2	0.5	2.0
1st quartile	9	0.2	0.2	5.3	0.2	6.0	0.1	700	0.5	0.2	3.9	16	0.5	260	73	0.2	4.7	0.2	1.6	0.5	2.0
Median	10	0.2	0.2	8.2	0.2	8.0	0.1	910	0.5	0.2	4.6	30	0.5	325	98	0.2	5.4	0.2	2.0	0.5	4.0
3rd quartile	24	0.2	0.2	9.4	0.2	9.0	0.1	1300	0.5	0.2	6.4	35	0.5	370	110	0.2	6.8	0.2	2.2	0.5	5.0
95th percentile	24	0.2	0.2	9.9	0.2	9.0	0.1	1460	0.5	0.2	6.6	49	0.5	386	110	0.2	7.0	0.3	2.2	0.5	5.6
Maximum	24	0.2	0.2	10.0	0.2	9.0	0.1	1500	0.5	0.2	6.7	53	0.5	390	110	0.2	7.1	0.3	2.3	0.5	6.0
Mean	14	0.2	0.2	7.6	0.2	7.5	0.1	993	0.5	0.2	5.0	30	0.5	322	92	0.2	5.6	0.2	1.8	0.5	3.8
Geometric mean	12	0.2	0.2	7.2	0.2	7.3	0.1	947	0.5	0.2	4.9	27	0.5	318	91	0.2	5.5	0.2	1.7	0.5	3.5
Sample standard deviation	7	0.0	0.0	2.1	0.0	1.5	0.0	312	0.0	0.0	1.2	13	0.0	50	17	0.0	1.1	0.0	0.5	0.0	1.5
CV (standard deviation/mean)	56%	0%	0%	30%	0%	22%	0%	34%	0%	0%	26%	48%	0%	17%	20%	0%	21%	19%	29%	0%	42%
Lower bound CI for the mean	6	0.2	0.2	5.2	0.2	5.8	0.1	635	0.5	0.2	3.6	15	0.5	264	73	0.2	4.4	0.2	1.3	0.5	2.2
Upper bound CI for the mean	22	0.2	0.2	9.9	0.2	9.2	0.1	1352	0.5	0.2	6.3	45	0.5	379	112	0.2	6.8	0.3	2.4	0.5	5.5
Kurtosis	-1.9			-1.4		-1.0		-1.2			-1.7	0.0		-1.9	-1.6		-2.2	6.0	1.4		-1.3
Skewness	0.9			-0.6		-0.8		0.7			0.6	0.7		-0.1	-0.7		0.3	2.4	-1.3		0.0

6 wild blueberries samples were collected. Concentrations are in µg/g dry wt.

Note: the standard-deviation and the confidence interval of the mean are valid only in the case of a simple random sampling

3. ANALYTICAL RESULTS

Table D3.1: Results of Chemical Analysis for Soil Collected from Market Gardens, Commercial Berry Farms, and Wild Blueberry Sites.

Station	Sample Number	Soil Depth	Al	Sb	As	Ba	Be	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Mo	Ni	Se	Sr	V	Zn
Market Gardens																						
5037619	14919	0 - 15	9100	<0.8	9	32	<0.5	<0.8	3800	23	4	43	11000	11	1900	140	<1.5	62	<1	34	26	22
	14920	0 - 15	8100	<0.8	9	30	<0.5	<0.8	3500	23	4	44	10000	10	1900	130	<1.5	59	<1	29	25	22
5037620	14921	0 - 15	9400	<0.8	6	32	<0.5	<0.8	3100	22	4	33	10000	8	1800	120	<1.5	46	<1	30	25	19
	14922	0 - 15	9300	<0.8	6	32	<0.5	<0.8	2700	22	4	36	10000	9	1700	120	<1.5	50	<1	26	25	19
5037621	14941	0 - 15	6400	<0.8	7	26	<0.5	<0.8	2600	18	4	46	10000	10	1700	100	<1.5	43	<1	17	23	27
	14942	0 - 15	6500	<0.8	6	28	<0.5	<0.8	2900	17	4	40	10000	9	1700	110	<1.5	39	<1	18	22	29
5037622	14945	0 - 15	6400	<0.8	8	29	<0.5	<0.8	3700	19	5	43	10000	13	1800	120	<1.5	50	<1	16	22	33
	14946	0 - 15	6200	<0.8	7	29	<0.5	<0.8	3800	20	4	43	10000	13	2000	130	<1.5	44	<1	16	22	34
5037623	14952	0 - 15	6400	<0.8	5	19	<0.5	<0.8	3300	20	4	27	12000	5	2000	130	<1.5	28	<1	13	25	29
	14953	0 - 15	6100	<0.8	5	19	<0.5	<0.8	3600	19	4	26	11000	5	2000	120	<1.5	27	<1	13	24	31
5037624	14961	0 - 15	5300	<0.8	5	24	<0.5	1.9	4800	17	4	33	8500	5	2100	120	<1.5	36	<1	18	18	25
	14962	0 - 15	5900	<0.8	5	26	<0.5	<0.8	5200	19	4	35	9500	5	2200	120	<1.5	36	<1	20	19	27
5037626	14988	0 - 15	9500	<0.8	8	32	<0.5	<0.8	2700	23	4	31	11000	7	1800	150	<1.5	43	<1	18	23	20
	14989	0 - 15	9500	<0.8	7	32	<0.5	<0.8	2600	22	4	31	11000	7	1700	150	<1.5	44	<1	16	23	21
5037627	14995	0 - 15	7400	<0.8	<5	29	<0.5	<0.8	3900	23	4	32	10000	7	2500	120	<1.5	44	<1	21	22	31
	14996	0 - 15	6700	<0.8	5	27	<0.5	<0.8	3400	22	4	31	8800	7	2300	110	<1.5	40	<1	17	20	28
5037628	14999	0 - 15	11000	<0.8	5	39	<0.5	<0.8	3800	26	5	39	13000	9	2100	220	<1.5	55	<1	29	28	29
	15000	0 - 15	11000	<0.8	6	44	<0.5	<0.8	4500	25	4	41	12000	17	2300	160	<1.5	54	<1	36	28	43
5037629	15003	0 - 15	8100	<0.8	5	28	<0.5	<0.8	4000	16	3	28	10000	7	1900	200	<1.5	36	<1	19	21	21
	15004	0 - 15	8300	<0.8	5	28	<0.5	<0.8	4000	17	3	34	10000	8	1800	200	<1.5	39	<1	22	22	22
Market Garden Control																						
5037625	14977	0 - 15	6900	<0.8	5	54	<0.5	<0.8	4000	17	3	10	8100	37	1800	150	<1.5	9	<1	22	19	56
	14978	0 - 15	7000	<0.8	5	55	<0.5	<0.8	3900	17	3	10	8100	34	1800	150	<1.5	10	<1	22	19	56
Commercial Berry Farms																						
5037413	14845	0 - 10	8400	<0.8	6	34	<0.5	<0.8	1800	20	4	38	9900	13	1500	140	<1.5	41	<1	10	19	30
	14846	0 - 10	11000	<0.8	5	33	<0.5	<0.8	1700	21	4	38	13000	12	1400	130	<1.5	42	<1	11	20	29
5037414	14849	0 - 10	6300	<0.8	5	20	<0.5	<0.8	1800	18	3	33	7800	8	1700	56	<1.5	35	<1	<10	17	14
	14850	0 - 10	5900	<0.8	5	22	<0.5	<0.8	2100	19	3	35	7100	9	1800	64	<1.5	41	<1	10	19	15
5037415	14853	0 - 10	8100	<0.8	5	22	<0.5	<0.8	2000	20	3	28	9100	8	1900	69	<1.5	31	<1	<10	18	15
	14854	0 - 10	7900	<0.8	5	22	<0.5	<0.8	2100	20	3	31	9100	8	1900	69	<1.5	33	<1	<10	19	15
5037416	14857	0 - 15	6700	<0.8	7	18	<0.5	<0.8	550	13	3	65	7300	15	790	35	<1.5	52	1	10	14	11
	14858	0 - 15	6800	<0.8	9	19	<0.5	<0.8	610	15	3	72	7800	16	930	40	<1.5	49	1	10	16	12

Table D3.1: Results of Chemical Analysis for Soil Collected from Market Gardens, Commercial Berry Farms, and Wild Blueberry Sites.

Station	Sample Number	Soil Depth	Al	Sb	As	Ba	Be	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Mo	Ni	Se	Sr	V	Zn
5037417	14861	0 - 15	7600	<0.8	5	26	<0.5	<0.8	1400	19	4	25	9200	7	1600	110	<1.5	35	1	<10	18	18
	14862	0 - 15	8800	<0.8	6	27	<0.5	<0.8	1600	21	4	26	9500	7	1600	110	<1.5	37	<1	<10	19	19
5037418	14865	0 - 10	8000	<0.8	5	33	<0.5	<0.8	3100	27	5	29	10000	7	2500	140	<1.5	42	<1	17	23	23
	14866	0 - 10	7400	<0.8	5	33	<0.5	<0.8	2700	27	5	29	10000	8	2500	130	<1.5	42	<1	16	22	24
5037419	14869	0 - 10	15000	<0.8	5	32	<0.5	<0.8	5200	26	5	24	19000	7	2800	130	<1.5	38	<1	12	21	22
	14870	0 - 10	16000	<0.8	5	32	<0.5	<0.8	5800	26	5	25	21000	7	2900	130	<1.5	36	<1	13	21	22
5037420	14873	0 - 15	8000	<0.8	5	28	<0.5	<0.8	4100	19	4	22	9800	7	1600	81	<1.5	33	<1	11	20	15
	14874	0 - 15	7500	<0.8	5	27	<0.5	<0.8	3300	19	4	22	9200	8	1600	83	<1.5	35	<1	11	20	15
5037421	14877	0 - 15	7500	<0.8	5	28	<0.5	<0.8	2100	18	4	23	9700	8	1200	110	<1.5	33	<1	11	19	18
	14878	0 - 15	7000	<0.8	5	28	<0.5	<0.8	1800	18	4	22	8900	8	1200	110	<1.5	32	<1	<10	19	17
5037422	14881	0 - 15	6000	<0.8	5	27	<0.5	<0.8	2000	15	3	26	7900	8	920	74	<1.5	32	<1	<10	18	14
	14882	0 - 15	6300	<0.8	5	26	<0.5	<0.8	1800	14	3	24	8300	8	890	67	<1.5	31	<1	<10	17	13
5037423	14885	0 - 15	6500	<0.8	5	27	<0.5	<0.8	2900	17	3	20	8500	7	1300	82	<1.5	29	<1	<10	17	15
	14886	0 - 15	6500	<0.8	5	26	<0.5	<0.8	3100	18	3	20	9100	7	2500	84	<1.5	29	<1	11	18	15
5037424	14889	0 - 15	7100	<0.8	5	39	<0.5	<0.8	2800	22	4	40	10000	18	1800	120	<1.5	50	<1	15	22	39
	14890	0 - 15	8300	<0.8	8	37	<0.5	<0.8	2500	21	4	39	9300	18	1800	110	<1.5	51	<1	14	20	36
5037425	14893	0 - 15	6600	<0.8	7	25	<0.5	<0.8	3100	14	3	26	8000	8	1700	170	<1.5	39	<1	<10	17	21
	14894	0 - 15	6500	<0.8	8	25	<0.5	<0.8	2700	14	3	32	8100	8	1500	170	<1.5	39	<1	<10	17	20
5037426	14897	0 - 15	7000	<0.8	7	22	<0.5	<0.8	2800	19	4	29	9000	7	1700	110	<1.5	39	<1	<10	19	17
	14898	0 - 15	6800	<0.8	7	22	<0.5	<0.8	2900	19	4	25	8800	7	1800	110	<1.5	35	<1	<10	19	16
5037428	14905	0 - 15	7000	<0.8	10	34	<0.5	<0.8	1800	18	4	36	8800	10	1300	110	<1.5	43	<1	<10	18	24
	14906	0 - 15	7200	<0.8	10	35	<0.5	<0.8	1900	18	4	35	9100	10	1400	110	<1.5	42	<1	<10	19	25
5037429	14909	0 - 15	8400	<0.8	7	32	<0.5	<0.8	1400	19	4	31	10000	9	1500	160	<1.5	45	<1	<10	19	29
	14910	0 - 15	8800	<0.8	7	32	<0.5	<0.8	1700	20	4	31	10000	8	1600	180	<1.5	44	<1	11	21	28
Commercial Berry Farm Control																						
5037427	14901	0 - 15	4800	<0.8	5	19	<0.5	<0.8	2800	11	2	5	7700	8	1800	87	<1.5	9	<1	<10	16	24
	14902	0 - 15	4400	<0.8	5	19	<0.5	<0.8	2600	11	2	4	7100	8	1600	82	<1.5	8	<1	<10	16	23
5037617	14969	0 - 15	5600	<0.8	5	21	<0.5	<0.8	2500	13	1	<1	6200	7	890	87	<1.5	6	<1	11	15	27
	14970	0 - 15	5900	<0.8	5	22	<0.5	<0.8	2600	13	1	<1	6400	8	950	89	<1.5	7	<1	12	16	31
5037618	14973	0 - 15	6700	<0.8	5	21	<0.5	<0.8	2700	12	1	<1	5300	6	890	64	<1.5	6	<1	11	14	21
	14974	0 - 15	6900	<0.8	5	21	<0.5	<0.8	2900	13	1	<1	5500	6	940	64	<1.5	7	<1	12	14	23
Wild Blueberries																						
5037430	14913	0 - 15	12000	1	38	51	<0.5	<0.8	1100	33	15	400	23000	32	3500	230	<1.5	290	3	14	42	49
	14914	0 - 15	13000	1	33	49	<0.5	<0.8	1200	33	14	290	25000	25	3600	220	<1.5	260	3	13	43	49

Table D3.2: Results of Chemical Analysis for Commercial Market Garden Vegetables Collected in the City of Greater Sudbury.

Station	Sample Number	Vegetable	Al	As	Ba	Bo	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Mo	Ni	Sr	V	Zn
Market Gardens																				
5037622	14947	beans, green	5<w	0.2<w	6	16	0.1<w	4400	0.5<w	0.2<w	7	55	0.5<w	1900	16	2	5.3	6.2	0.5<w	24
5037620	14933	beans, yellow	35	0.2<w	14	15	0.1<w	4600	0	0.9<t	5.9	100	0.5<w	2700	87	0.2<w	45	12	0.5<w	32
	14934	beans, yellow	44	0.2<w	14	18	0.2<t	4800	0.5<w	0.8<t	6.4	96	0	2800	93	0.3<t	45	13	0.5<w	33
5037622	14948	beans, yellow	8<t	0.2<w	8.4	15	0.1<w	4600	0.5<w	0.2<w	8	78	0.5<w	2100	17	3	7.1	7.4	0.5<w	22
5037626	14992	beans, yellow	48	0.2<w	4.7	19	0.1<w	4700	0.5<w	0.3<t	10	100	0.5<w	3300	27	0.7<t	10	5.3	0.5<w	30
5037620	14937	beet root	140	0.2<w	27	14	0.8	1500	0.5<w	0.6<t	9	150	0.5<w	2400	82	0.2<w	13	11	0.5<w	32
	14938	beet root	190	0.3<t	25	16	1	1600	0.8<t	1.1	16	270	0.5<w	3200	110	0.2<w	21	12	0.5<w	35
5037626	14991	carrot	180	0.2<w	11	23	0.3<t	2500	0.8<t	0.2<w	10	230	0.5<w	1900	21	0.2<w	3.2	5.2	0.5<w	23
5037619	14925	carrot	92	0.2<w	28	28	0.8	2800	0.7<t	0.2<w	11	100	0.5<w	1800	23	0.2<w	11	15	0.5<w	33
	14926	carrot	99	0.2<w	24	24	0.8	2600	0.6<t	0.2<w	8	110	0.5<w	1700	23	0.2<w	12	14	0.5<w	31
5037620	14935	cucumber	30	0.2<w	6.6	18	0.1<w	3500	0.5<w	0.3<t	8	63	0.5<w	3900	17	0.3<t	15	12	0.5<w	30
	14936	cucumber	58	0.2<w	10	15	0.1<w	3600	0.5<w	0.5<t	10	91	0.5<w	3800	25	0.3<t	22	14	0.5<w	30
5037626	14990	cucumber	120	0.2<w	3.6	17	0.1<w	4000	0.8<t	0.2<w	9	190	0.5<w	3700	20	0.9<t	4.9	4.9	0.5<w	34
5037620	14929	lettuce	230	0.4<t	17	14	2.1	9900	0.6<t	0.5<t	13	310	0	4500	150	0.2<w	9.3	27	0.5<w	32
	14930	lettuce	780	0.8<t	20	17	2.3	11000	1.9<t	0.9<t	15	850	1.0<t	4700	180	0.2<w	14	30	1.9<t	33
5037623	14954	lettuce	81	0.6<t	4.9	22	0.4<t	14000	0.8<t	0.2<w	16	180	0.9<t	5900	29	0.8<t	6.2	16	0.5<w	40
	14955	lettuce	31	0.4<t	3.1	19	0.3<t	9700	0.5<w	0.2<w	11	92	0.5<w	4400	23	0.5<t	3.2	11	0.5<w	29
5037626	14994	lettuce	1200	1	13	18	1.8	11000	3	0.8<t	14	1300	3.1	3800	150	0.2<w	7.8	13	2.9	28
5037623	14960	peppers, banana	5<w	0.2<w	0.5<w	13	0.1<w	900	0.5<w	0.2<w	11	200	0.5<w	1700	12	0.8<t	3.6	0.7<t	0.5<w	19
5037623	14956	peppers, green	5<w	0.2<w	0.5<w	16	0.1<w	380	0.5<w	0.2<w	8	32	0.5<w	1200	8.4	0.5<t	3.2	0.5<w	0.5<w	12
5037621	14943	potato	17<t	0.2<w	0.6<t	6	0.1<w	310	0.5<w	0.2<w	6	26	0.5<w	1100	3.7	1	1.0<t	0.6<t	0.5<w	12
	14944	potato	35	0.2<w	0.5<w	6	0.1<w	310	0.5<w	0.2<w	7	44	0.5<w	1100	3.8	1	0.9<t	0.6<t	0.5<w	12
5037627	14997	potato	48	0.2<w	0.5<w	6	0.3<t	500	0.5<w	0.3<t	7	120	0.7<t	1200	7.2	0.2<w	3.6	1.2<t	0.5<w	14
	14998	potato	100	0.2<w	0.9<t	9	0.2<t	580	0.5<w	0.3<t	8	210	0.5<w	1300	8.4	0.2<w	4.2	1.5<t	0.5<w	16
5037628	15001	potato	150	0.2<w	1.2<t	7	0.3<t	340	0.5<w	0.2<w	8	170	0.8<t	1100	8.4	0.2<w	3.8	0.9<t	0.5<w	17
	15002	potato	76	0.2<w	1.0<t	9	0.2<t	270	0.5<w	0.2<w	8	140	0.5<w	1100	7.9	0.2<w	3.3	0.7<t	0.5<w	17
5037629	15005	potato	15.<t	0.2<w	0.6<t	9	0.2<t	220<t	0.5<w	0.2<w	7.8	49	0.5<w	1200	10	0	0.5<w	0.9<t	0.5<w	20
	15006	potato	31	0.2<w	0.7<t	7	0.1<w	250	0.5<w	0.2<w	8.1	55	0.5<w	1200	9.4	0	0.5<w	1.1<t	0.5<w	20

Table D3.1: Results of Chemical Analysis for Soil Collected from Market Gardens, Commercial Berry Farms, and Wild Blueberry Sites.

Station	Sample Number	Soil Depth	Al	Sb	As	Ba	Be	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Mo	Ni	Se	Sr	V	Zn
5037431	14917	0 - 15	6400	<0.8	34	24	<0.5	<0.8	710	16	6	120	10000	17	1100	110	<1.5	77	<1	<10	19	16
	14918	0 - 15	6500	<0.8	39	29	<0.5	<0.8	610	16	7	160	10000	21	1100	140	<1.5	98	1	<10	18	16
Wild Blueberry Control																						
5037616	14965	0 - 10	8900	<0.8	6	59	<0.5	<0.8	3100	15	3	15	10000	15	1100	260	<1.5	20	<1	20	25	26
	14966	0 - 10	11000	<0.8	5	53	<0.5	<0.8	3600	19	3	14	13000	13	1400	230	<1.5	19	<1	36	32	25
Table F			N/A	1	14	190	1.2	1	N/A	67	19	56	N/A	55	N/A	N/A	2.5	43	1.4	N/A	91	150
Table A			N/A	13	20	750	1.2	3	N/A	750	40	150	N/A	200	N/A	N/A	5	150	2	N/A	200	600

All data are µg/g dry weight, mean of duplicate samples and analysis. Data in bold exceed the Table F Ontario Typical Range Background Soil Guideline for the agricultural land use category (MOE 1997, Appendix H). Data in bold and underlined exceed the Table A Soil Clean-up Guideline for coarse agricultural soils (MOE 1997, Appendix H). N/A - no applicable guidelines exist for naturally occurring elements. < - less than the Method Detection Limit (MDL).

Table D3.2: Results of Chemical Analysis for Commercial Market Garden Vegetables Collected in the City of Greater Sudbury.

Station	Sample Number	Vegetable	Al	As	Ba	Bo	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Mo	Ni	Sr	V	Zn
5037619	14923	pumpkin	5<w	0.2<w	5.3	21	0.1<w	3200	0.5<w	0.2<w	11	51	0.5<w	3600	18	0.3<t	18	11	0.5<w	41
	14924	pumpkin	10<t	0.2<w	4.2	18	0.2<t	2400	0.5<w	0.2<w	8.6	86	0	3400	22	0.2<w	16	8.8	0.5<w	56
5037622	14949 †	radish	370	0.3<t	41	19	0.3<t	2400	1.2<t	0.3<t	14	390	0	3100	23	0.4<t	5.7	8.2	0.9<t	31
5037620	14939	swiss chard	110	0.2<w	57	18	1.3	10000	0.5<w	0.6<t	16	130	0	12000	180	0.2<w	17	32	0.5<w	33
	14940	swiss chard	300	0.3<t	92	19	1.8	13000	0.8<t	1.1	17	310	0	15000	230	0.2<w	17	43	0.7<t	34
5037622	14950	swiss chard	110	0.2<w	32	25	0.3<t	8300	0.7<t	0.4<t	11	200	0	6500	110	1	5.7	9.7	0.5<w	31
5037620	14931	tomato	17<t	0.2<w	2.7	14	0.4<t	1500	0.5<w	0.4<t	11	70	0.5<w	2000	22	0.2<w	11	3.6	0.5<w	25
	14932	tomato	34	0.2<w	4	14	0.5	1600	0.5<w	0.4<t	10	70	0.5<w	2100	25	0.2<w	12	4.6	0.5<w	24
5037626	14993	tomato	52	0.2<w	2.7	16	0.1<w	2200	0.5<w	0.2<w	7.8	63	0	1400	13	0.7<t	0.5<w	4.7	0.5<w	18
5037623	14957	tomato, red	7<t	0.2<w	0.9<t	13	0.1<w	1200	0.8<t	0.2<w	5.2	31	0	1500	9	0.6<t	1.8<t	1.1<t	0.5<w	14
	14958	tomato, red	8<t	0.2<w	0.8<t	11	0.1<w	1300	0.7<t	0.2<w	5.8	32	0	1600	9	0.7<t	1.6<t	1.2<t	0.5<w	15
5037623	14959	tomato, yellow	5<w	0.2<w	0.6<t	12	0.1<w	890	0.5<w	0.2<w	4	23<t	0.5<w	1100	7.1	0.4<t	1.1<t	1<t	0.5<w	13
5037620	14927	zucchini	8<t	0.2<w	8.9	23	0.1<w	3100	0.7<t	1.1	11	60	0.5<w	3000	55	0.4<t	40	9.2	0.5<w	48
	14928	zucchini	20<t	0.2<w	7.4	24	0.2<t	2900	0.5<w	1.1	14	100	0.5<w	3700	56	0.2<w	43	9.2	0.5<w	61
5037624	14963	zucchini	6<t	0.2<w	1.5<t	27	0.1<w	5100	0.7<t	0.2<w	14	64	0	2900	14	0.5<t	3.3	5.6	0.5<w	48
	14964	zucchini	5<w	0.2<w	1.8<t	26	0.1<w	3200	0.5<w	0.3<t	11	50	0	3100	13	0.3<t	3.3	4.6	0.5<w	40
Market Garden Controls																				
5037625	14983	beans, green	50	0.2<w	6	21	0.1<w	3300	0.6<t	0.2<w	8.2	120	1.4<t	2400	16	0.8<t	0.5<w	9.8	0.5<w	38
5037625	14984	beans, yellow	34	0.2<w	10	23	0.1<w	4800	0.5<w	0.2<w	7.9	100	0.5<w	3000	18	1	0.7<t	14	0.5<w	39
5037625	14979 †	beet root	310	0.2<w	35	20	0.4<t	3000	8.2	0.2<w	11	350	1.6<t	3200	46	1	5.6	19	0.7<t	77
5037625	14981	carrot	150	0.2<w	33	24	0.5	3300	0.6<t	0.2<w	7.1	150	1.9<t	1900	14	0.2<w	0.5<w	17	0.5<w	31
5037625	14980	cucumber	93	0.2<w	7.4	19	0.1<w	5500	0.8<t	0.2<w	11	150	1.0<t	4200	14	3	0.6<t	14	0.5<w	47
5037625	14987 †	lettuce	2400	0.8<t	40	19	0.4<t	13000	5.8	1.2	15	2300	19	3300	79	2	3.7	45	5.3	69
5037625	14982	pepper, green	71	0.2<w	2.7	20	0.2<t	2100	0.5<w	0.3<t	13	130	0.9<t	1900	14	0.6<t	0.7<t	4.5	0.5<w	28
5037625	14986 †	swiss chard	1600	0.8<t	65	21	0.2<t	14000	3.8	0.7<t	7.5	1500	10	11000	52	0.7<t	2.2<t	48	3.6	49
5037625	14985	tomato	7.<t	0.2<w	0.7<t	10	0.2<t	1100	0.5<w	0.2<w	6.5	35	0.6<t	850	11	0.2<w	1.1<t	0.9<t	0.5<w	23

All data are µg/g dry weight of duplicate samples where sufficient produce was available. <t - trace amount, <w - no measurable response above detection limit.

Antimony (Sb), beryllium (Be), and selenium (Se) are not reported as all results were 0.2<w.

† - magnetic particles removed before analysis, see Discussion 7.4 and Appendix G for details.

Table D3.3: Results of Chemical Analysis for Commercial and Wild Berries Collected Within the City of Greater Sudbury.

Station	Sample Number	Type of Fruit	Al	Ba	B	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Mo	Ni	Se	Sr	Zn
Commercial Berry Farms																			
5037413	14843	Raspberry	5<w	6.7	6	0.1<w	1400	0.5<w	0.2<w	4.6	23<t	0.5<w	960	17	0.2<w	4.6	0.2<w	3	10
	14844	Raspberry	5<w	7.7	7	0.1<w	1400	0.5<w	0.2<w	4.4	25	0.5<w	1000	17	0.2<w	4.9	0.2<w	2.9	11
5037414	14847	Raspberry	5<w	2.1<t	7	0.1<w	1700	0.5<w	0.2<w	4.9	32	0.6<t	1600	16	1	5.9	0.2<w	1.6<t	13
	14848	Raspberry	5<w	1.8<t	11	0.1<w	1600	0.5<w	0.2<w	5.1	27	0.5<w	1500	15	1.1	5.9	0.2<w	1.5<t	13
5037419	14867	Raspberry	5<w	2.1<t	9	0.8	1700	0.5<w	0.2<w	5.3	68	0.5<w	1100	59	0.2<w	8.9	0.2<w	2.2<t	13
	14868	Raspberry	5<w	1.9<t	11	0.1<w	1600	0.5<w	0.3<t	4.6	30	0.5<w	930	84	0.2<w	9.6	0.2<w	2.0<t	11
5037421	14875	Raspberry	11<t	8.4	9	0.1<w	1900	0.5<w	0.2<w	5.1	34	0.6<t	1000	25	0.4<t	8.3	0.2<w	9.5	12
	14876	Raspberry	5<w	4.8	5	0.1<w	1500	0.5<w	0.2<w	4.8	40	0.5<w	1000	12	0.3<t	5.8	0.2<w	2.1<t	10
5037424	14887	Raspberry	6<t	2.5	11	0.1<w	1100	0.5<w	0.2<w	5.9	34	0.6<t	1300	16	0.5<t	8	0.2<w	2.1<t	20
	14888	Raspberry	5<w	2.4<t	9	0.1<w	930	0.5<w	0.2<w	5.3	28	0.5<w	1200	11	0.5<t	6.6	0.2<w	1.9<t	17
5037425	14891	Raspberry	5<w	4.9	7	0.1<w	1500	0.5<w	0.2<w	5.6	33	0.5<w	1500	15	0.6<t	6.8	0.2<w	2.9	13
	14892	Raspberry	5<w	5.1	7	0.1<w	1400	0.5<w	0.2<w	6.2	32	0.5<w	1500	18	0.5<t	6.4	0.2<w	2.6	14
5037426	14895	Raspberry	6<t	6	7	0.1<w	1700	0.5<w	0.2<w	5.7	35	0.5<w	1400	15	0.5<t	7.4	0.2<w	2.3<t	13
	14896	Raspberry	6<t	5.3	7	0.1<w	1700	0.5<w	0.2<w	5.5	23<t	0.5<w	970	17	0.3<t	6.5	0.2<w	5	9
5037428	14903	Raspberry	12<t	1<t	6	0.1<w	1100	0.5<w	0.2<w	4.1	32	1.1<t	900	53	0.3<t	5.5	0.2<w	1.0<t	11
	14904	Raspberry	10<t	1<t	6	0.1<w	1000	0.5<w	0.2<w	4.6	32	0.5<w	970	49	0.2<w	5.4	0.2<w	0.9<t	13
5037415	14851	Strawberry	5<w	5.1	8	0.1<w	950	0.5<w	0.2<w	6	25	0.5<w	1000	8.5	0.7<t	1.4<t	0.2<w	1.0<t	7
	14852	Strawberry	5<w	5.7	6	0.1<w	920	0.5<w	0.2<w	6.5	23<t	0.5<w	1000	4.6	0.7<t	1.6<t	0.2<w	1.0<t	7
5037417	14859 [†]	Strawberry	6<t	5.7	9	0.1<w	1000	0.5<w	0.4<t	4.5	29	0.5<w	840	18	0.4<t	2.2<t	0.2<w	1.8<t	6
	14860	Strawberry	5<w	14	7	0.1<w	1900	0.5<w	0.2<w	4.5	23<t	0.5<w	1200	17	0.4<t	2.0<t	0.2<w	4.3	6
5037418	14863 [†]	Strawberry	8<t	4	7	0.1<w	1100	0.5<w	0.2<w	3.5	36	0.5<w	630	29	0.2<w	2.2<t	0.2<w	1.8<t	5
	14864	Strawberry	7<t	3.9	7	0.1<w	1300	0.5<w	0.2<w	2.7	25	0.5<w	610	26	0.2<w	1.5<t	0.2<w	2.1<t	5
5037420	14871	Strawberry	8<t	12	8	0.1<w	2100	0.5<w	0.2<w	4.5	27	0.5<w	960	16	0.4<t	2.0<t	0.2<w	4.7	6
	14872	Strawberry	11<t	9.8	6	0.1<w	1300	0.5<w	0.2<w	3.8	31	0.5<w	860	13	0.4<t	1.9<t	0.2<w	3.1	5
5037422	14879	Strawberry	5<w	12	6	0.1<w	1300	0.5<w	0.2<w	2.5	63	0.5<w	540	14	0.2<w	1.5<t	0.2<w	3.3	4<t
	14880	Strawberry	5<w	9.9	6	0.1<w	1300	0.5<w	0.2<w	2<t	13<t	0.5<w	510	12	0.2<w	1.5<t	0.2<w	3.2	4<t

Table D3.3: Results of Chemical Analysis for Commercial and Wild Berries Collected Within the City of Greater Sudbury.

Station	Sample Number	Type of Fruit	Al	Ba	B	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Mo	Ni	Se	Sr	Zn
5037423	14883	Strawberry	5<w	13	8	0.1<w	1700	0.5<w	0.3<t	3.9	160	0.5<w	1000	17	0.3<t	2.2<t	0.2<w	4.2	8
	14884	Strawberry	5<w	11	8	0.1<w	1800	0.5<w	0.2<w	4.6	35	0.5<w	1000	14	0.3<t	2.1<t	0.2<w	4.3	7
5037429	14907	Strawberry	5<w	7.2	7	0.2<t	930	0.5<w	0.2<w	2.8	19<t	0.5<w	740	21	0.2<w	1.7<t	0.2<w	1.9<t	7
	14908	Strawberry	5<w	7.5	8	0.2<t	1100	0.5<w	0.2<w	3	20<t	0.5<w	840	25	0.2<w	1.9<t	0.2<w	2.5	7
Commercial Berry Farm Control																			
5037427	14899	Raspberry	5<w	2.1<t	5	0.1<w	1900	0.5<w	0.2<w	4.4	29	0.8<t	1100	16	1	1.1<t	0.2<w	2.1<t	15
	14900	Raspberry	5<w	2.1<t	6	0.1<w	1800	0.5<w	0.2<w	3.9	26	0.5<w	1000	15	0.8<t	0.9<t	0.2<w	2.0<t	14
5037617	14971	Raspberry	250	3.3	10	0.1<w	1900	0.6<t	0.2<w	3.8	97	0.5<w	1200	18	0.8<t	1.0<t	0.2<w	2.7	21
	14972	Raspberry	160	5.1	14	0.1<w	2400	0.5<w	0.2<w	5.5	63	0.5<w	1400	21	0.9<t	0.5<w	0.2<w	3.8	25
5037618	14975	Strawberry	190	7.7	12	0.1<w	1600	0.5<w	0.2<w	4.4	32	1.2<t	920	13	0.6<t	0.5<w	0.2<w	3.3	8
	14976	Strawberry	240	7.3	12	0.1<w	1600	0.5<w	0.2<w	3.4	34	0.5<w	960	13	0.4<t	0.6<t	0.2<w	3	8
Wild Blueberry																			
5037416	14855	Wild	9<t	7.9	8	0.1<w	850	0.5<w	0.2<w	3.7	15<t	0.5<w	340	73	0.2<w	4.8	0.2<w	2.3<t	5
	14856	Wild	10<t	8.4	8	0.1<w	970	0.5<w	0.2<w	3.9	16<t	0.5<w	390	66	0.2<w	5.9	0.2<w	2.1<t	6
5037430	14911	Wild	8<t	5.3	6	0.1<w	700	0.5<w	0.2<w	4.5	53	0.5<w	260	97	0.2<w	4.7	0.2<w	2.2<t	2<t
	14912	Wild	9<t	4.3	5	0.1<w	640	0.5<w	0.2<w	4.7	25	0.5<w	260	98	0.2<w	4.3	0.2<w	1.6<t	2<t
5037431	14915	Wild	24<t	10	9	0.1<w	1500	0.5<w	0.2<w	6.7	35	0.5<w	310	110	0.2<w	6.8	0.2<w	1.8<t	4<t
	14916	Wild	24<t	9.4	9	0.1<w	1300	0.5<w	0.2<w	6.4	35	0.5<w	370	110	0.2<w	7.1	0.3<t	0.9<t	4<t
Wild Blueberry Control																			
5037616	14967	Wild	18<t	10	7	0.1<w	730	0.7<t	0.2<w	2.7	23<t	0.7<t	330	370	0.2<w	0.9<t	0.2<w	0.8<t	5
	14968	Wild	20<t	9.4	6	0.1<w	710	0.5<w	0.2<w	2.5	27	1.1<t	320	350	0.2<w	0.7<t	0.2<w	0.8<t	6

All data are µg/g dry weight of duplicate samples where sufficient produce was available. <t - trace amount, <w - no measurable response above detection limit.

Arsenic (As), beryllium (Be), and antimony (Sb) are not reported as all results were 0.2<w. All vanadium (V) results were 0.5<w.

† - magnetic particles removed before analysis, see Discussion 7.4 and Appendix G for details.

4. SAMPLING STATION CO-ORDINATES

Table D4.1: Market Garden, Commercial Berry and Wild Blueberry Sampling Station Coordinates
(Map Datum NAD 83, accurate to ± 30 metres)

Station	Zone	Easting	Northing	Latitude	Longitude
5037413	17	508974	5167570	46.661632	-80.882699
5037414	17	509617	5166023	46.647701	-80.874327
5037415	17	509570	5166097	46.648368	-80.874939
5037416	17	509644	5166044	46.64789	-80.873973
5037417	17	509585	5166484	46.651851	-80.874735
5037418	17	496047	5164051	46.630012	-81.05164
5037419	17	496057	5163974	46.629319	-81.051509
5037420	17	487059	5160211	46.595341	-81.168948
5037421	17	487089	5160199	46.595234	-81.168556
5037422	17	487072	5160053	46.593919	-81.168774
5037423	17	487126	5160140	46.594703	-81.168071
5037424	17	509693	5166595	46.652848	-80.873322
5037425	17	509766	5166843	46.655079	-80.872362
5037426	17	509681	5166893	46.65553	-80.873472
5037427	17	410765	5114652	46.179598	-82.156175
5037428	17	492275	5160513	46.598139	-81.100857
5037429	17	492217	5160978	46.602323	-81.101622
5037430	17	494744	5152997	46.530523	-81.068537
5037431	17	513234	5157928	46.57479	-80.827292
5037616	17	453039	5201860	46.968599	-81.617339
5037617	17	326986	5127591	46.279836	-83.245763
5037618	17	326962	5127474	46.278777	-83.246032
5037619	17	495212	5161832	46.610037	-81.062525
5037620	17	495254	5161734	46.609155	-81.061976
5037621	17	512448	5155255	46.550749	-80.837622
5037622	17	512453	5155233	46.550551	-80.837557
5037623	17	512480	5155200	46.550254	-80.837206
5037624	17	512503	5155210	46.550343	-80.836905
5037625	17	328318	5125803	46.264094	-83.227835
5037626	17	493088	5160680	46.599651	-81.090245
5037627	17	494069	5162313	46.614356	-81.077458
5037628	17	494536	5163269	46.622964	-81.07137
5037629	17	434171	5117298	46.206074	-81.853324

City of Greater Sudbury 2001 Urban Soil Survey

Appendix E

Soil

pH

Electrical Conductivity

Total Organic Carbon

Results

1. Methods

In addition to the twenty inorganic chemical analysis conducted on each soil sample, one in ten soil samples were analyzed for pH, Electrical Conductivity (EC) and Total Organic Carbon (TOC). Samples with sample numbers ending in "0" were selected to have these additional analysis carried out on them. In the initial sample submission to the laboratory the laboratory mistakenly performed the three additional test on all samples. This resulted in the quota for these analysis being used up before all samples had been analyzed. As a result only a portion of the Park soil samples were analyzed for pH, EC and TOC as the parks were sampled last.

The results are organized by sampling Station Number. The Electrical Conductivity results are in $\mu\text{S}/\text{cm}$ and the Total Organic Carbon results are in mg/g dry weight. In some case only one or two of the three analysis were conducted on a sample.

Table E1: Soil pH, Electrical Conductivity (EC) and Total Organic Carbon (TOC) Results for the City of Greater Sudbury, 2001									
Station No.	Community	Landuse	Area Used For	Sample No.	Sample Type	Soil Depth	TOC	EC	pH
5028001	Sudbury (Core)	Residential	Yard - back	21115	Urban Soil	0-5 cm	50	49	6.8
5028002	Sudbury (Core)	Residential	Yard - back	21125	Urban Soil	10-20 cm	24	101	6.3
5028004	Sudbury (Core)	Residential	Yard - back	21135	Urban Soil	5-10 cm	25	89	6.2
5028006	Sudbury (Core)	Residential	Yard - back	21145	Urban Soil	0-5 cm	27	391	6.8
5028007	Sudbury (New)	Residential	Yard - front	17735	Urban Soil	5-10 cm	38	157	5.9
5028009	Sudbury (New)	Residential	Yard - front	17745	Urban Soil	0-5 cm	34	242	6.4
5028010	Sudbury (New)	Residential	Yard - front	17755	Urban Soil	10-20 cm	8	195	7.5
5028012	Sudbury (New)	Residential	Yard - back	17765	Urban Soil	5-10 cm	13	169	6.8
5028013	Sudbury (New)	Residential	Yard - front	17775	Urban Soil	0-5 cm	37	200	6.5
5028014	Sudbury (New)	Residential	Yard - back	17785	Urban Soil	10-20 cm	29	141	6.3
5028016	Sudbury (New)	Residential	Yard - back	17795	Urban Soil	5-10 cm	12	77	6.1
5028018	Sudbury (New)	Residential	Yard - front	17805	Urban Soil	0-5 cm	31	165	5.7
5028019	Sudbury (New)	Residential	Yard - back	17815	Urban Soil	10-20 cm	12	100	5.7
5028021	Sudbury (New)	Residential	Yard - back	17825	Urban Soil	5-10 cm	25	145	6.6
5028023	Sudbury (New)	Residential	Yard - front	17835	Urban Soil	0-5 cm	20	152	6.7
5028024	Sudbury (New)	Residential	Yard - front	17845	Urban Soil	10-20 cm	13	77	6.4
5028027	Sudbury (East)	Residential	Yard - back	17655	Urban Soil	0-5 cm	21	359	7.0
5028030	Sudbury (East)	Residential	Yard - front	21055	Urban Soil	0-5 cm	20	179	5.7
5028031	Sudbury (East)	Residential	Yard - back	21065	Urban Soil	10-20 cm	13	90	5.7
5028033	Sudbury (East)	Residential	Yard - front	21075	Urban Soil	5-10 cm	12	275	7.1
5028034	Sudbury (South)	Residential	Yard - front	19015	Urban Soil	5-10 cm	20	88	6.1
5028036	Sudbury (South)	Residential	Yard - back	19025	Urban Soil	0-5 cm	10	166	5.6
5028037	Sudbury (South)	Residential	Yard - back	19035	Urban Soil	10-20 cm	10	223	7.5
5028039	Sudbury (South)	Residential	Yard - front	19045	Urban Soil	5-10 cm	8	91	6.8
5028041	Lively	Residential	Yard - back	17665	Urban Soil	10-20 cm	42	373	6.9
5028043	Lively	Residential	Yard - back	17675	Urban Soil	5-10 cm	21	75	6.1
5028045	Lively	Residential	Yard - back	17685	Urban Soil	0-5 cm	63	330	7.0
5028046	Lively	Residential	Yard - front	17695	Urban Soil	10-20 cm	6	68	6.9
5028048	Lively	Residential	Yard - front	17705	Urban Soil	5-10 cm	20	224	6.7
5028050	Lively	Residential	Yard - front	17715	Urban Soil	0-5 cm	31	275	6.4
EC - is in $\mu\text{S/cm}$ TOC - is in mg/g dry weight nd - not determined									

Table E1: Soil pH, Electrical Conductivity (EC) and Total Organic Carbon (TOC) Results for the City of Greater Sudbury, 2001

Station No.	Community	Landuse	Area Used For	Sample No.	Sample Type	Soil Depth	TOC	EC	pH
5028051	Lively	Residential	Yard - front	17725	Urban Soil	10-20 cm	9	110	6.1
5028053	Lively	Residential	Yard - front	17855	Urban Soil	5-10 cm	18	58	5.7
5028055	Lively	Residential	Yard - front	17865	Urban Soil	0-5 cm	14	198	6.5
5028056	Lively	Residential	Yard - front	17885	Urban Soil	5-10 cm	10	155	7.1
5028057	Lively	Residential	Yard - back	17875	Urban Soil	10-20 cm	10	96	6.4
5028059	Azilda	Residential	Yard - front	19055	Urban Soil	0-5 cm	41	380	7.1
5028060	Azilda	Residential	Yard - back	19065	Urban Soil	10-20 cm	31	304	7.4
5028062	Azilda	Residential	Yard - back	19075	Urban Soil	5-10 cm	32	296	7.4
5028064	Azilda	Residential	Yard - front	19085	Urban Soil	0-5 cm	27	219	6.8
5028065	Azilda	Residential	Yard - back	19095	Urban Soil	10-20 cm	6	74	7.0
5028067	Azilda	Residential	Yard - front	19105	Urban Soil	5-10 cm	17	160	7.2
5028069	Azilda	Residential	Yard - back	19115	Urban Soil	0-5 cm	27	349	7.3
5028070	Azilda	Residential	Yard - front	19125	Urban Soil	10-20 cm	3	85	7.3
5028072	Azilda	Residential	Yard - back	19135	Urban Soil	5-10 cm	23	109	6.7
5028074	Sudbury (South)	Residential	Yard - back	19145	Urban Soil	0-5 cm	33	163	6.2
5028075	Sudbury (South)	Residential	Yard - back	19155	Urban Soil	10-20 cm	12	104	6.1
5028076	Sudbury (South)	Residential	Yard - side	19165	Urban Soil	5-10 cm	12	80	5.7
5028081	Sudbury (New)	Residential	Yard - back	20625	Urban Soil	5-10 cm	26	129	6.9
5028083	Sudbury (New)	Residential	Yard - back	20635	Urban Soil	0-5 cm	17	224	6.7
5028086	Sudbury (New)	Residential	Yard - back	20655	Urban Soil	5-10 cm	29	173	5.8
5028088	Sudbury (New)	Residential	Yard - back	20665	Urban Soil	0-5 cm	43	979	7.0
5028089	Sudbury (New)	Residential	Yard - back	20675	Urban Soil	10-20 cm	15	378	7.0
5028090	Copper Cliff	Residential	Yard - front	17895	Urban Soil	0-5 cm	86	346	5.4
5028091	Copper Cliff	Residential	Yard - back	17905	Urban Soil	10-20 cm	36	231	7.0
5028102	Garson	Residential	Yard - front	21715	Urban Soil	5-10 cm	14	108	6.0
5028104	Garson	Residential	Yard - back	21685	Urban Soil	5-10 cm	18	103	6.8
5028106	Garson	Residential	Yard - front	21675	Urban Soil	10-20 cm	7	65	6.8
5028107	Garson	Residential	Yard - front	21665	Urban Soil	0-5 cm	6	117	6.7
5028109	Garson	Residential	Yard - front	21655	Urban Soil	5-10 cm	12	208	7.4
5028111	Garson	Residential	Yard - back	21645	Urban Soil	10-20 cm	9	107	7.0

EC - is in $\mu\text{S}/\text{cm}$ TOC - is in mg/g dry weight nd - not determined

Table E1: Soil pH, Electrical Conductivity (EC) and Total Organic Carbon (TOC) Results for the City of Greater Sudbury, 2001									
Station No.	Community	Landuse	Area Used For	Sample No.	Sample Type	Soil Depth	TOC	EC	pH
5028113	Garson	Residential	Yard - front	19425	Urban Soil	10-20 cm	4	127	7.2
5028114	Garson	Residential	Yard - front	19415	Urban Soil	0-5 cm	20	210	6.8
5028116	Garson	Residential	Yard - front	19405	Urban Soil	5-10 cm	6	92	6.7
5028118	SKEAD	Residential	Yard - back	19465	Urban Soil	10-20 cm	9	45	6.5
5028120	SKEAD	Residential	Yard - front	19455	Urban Soil	10-20 cm	4	66	6.7
5028121	SKEAD	Residential	Yard - back	19445	Urban Soil	0-5 cm	19	180	6.3
5028123	SKEAD	Residential	Yard - front	19435	Urban Soil	5-10 cm	4	55	5.4
5030445	Sudbury (Core)	Parks	Greenspace	20035	Urban Soil	0-5 cm	28	479	6.3
5030446	Sudbury (Core)	Parks	Greenspace	20045	Urban Soil	10-20 cm	13	149	6.7
5030449	Sudbury (Core)	Parks	Greenspace	20055	Urban Soil	0-5 cm	32	534	6.8
5030450	Sudbury (Core)	Parks	Greenspace	20065	Urban Soil	10-20 cm	31	162	6.7
5030453	Sudbury (Core)	Parks	Play structure	20075	Play/Beach Sand	0-10 cm	222	nd	7.4
5030456	Sudbury (Core)	Parks	Native	20085	Undisturbed Soil	0-5 cm	58	146	4.9
5030463	Copper Cliff	Parks	Baseball outfield	20095	Urban Soil	5-10 cm	12	264	6.8
5030465	Copper Cliff	Parks	Baseball outfield	20105	Urban Soil	0-5 cm	204	nd	7.2
5030466	Copper Cliff	Parks	Baseball infield	20115	Urban Soil	10-20 cm	9	74	7.0
5030468	Copper Cliff	Parks	Greenspace	20125	Urban Soil	5-10 cm	6	176	7.4
5030470	Copper Cliff	Parks	Play structure	20135	Play/Beach Sand	0-5 cm	1	30	7.5
5030473	Copper Cliff	Parks	Greenspace	20145	Urban Soil	10-20 cm	11	306	7.4
5030476	Falconbridge	Parks	Greenspace	20155	Urban Soil	10-20 cm	65	136	6.0
5030478	Falconbridge	Parks	Baseball outfield	20165	Urban Soil	5-10 cm	12	207	6.4
5030480	Falconbridge	Parks	Baseball outfield	20175	Urban Soil	0-5 cm	16	113	6.2
5030481	Falconbridge	Parks	Baseball infield	20185	Urban Soil	10-20 cm	2	529	4.3
5030486	Falconbridge	Parks	Play structure	20195	Play/Beach Sand	0-5 cm	4	28	6.8
5030488	Falconbridge	Parks	Greenspace	20205	Urban Soil	5-10 cm	18	100	6.2
5030490	Falconbridge	Parks	Play structure	20215	Play/Beach Sand	0-5 cm	1	25	6.7
5030493	Coniston	Parks	Baseball outfield	20225	Urban Soil	5-10 cm	7	211	7.5
5030495	Coniston	Parks	Greenspace	20235	Urban Soil	5-10 cm	10	161	6.9
5030497	Coniston	Parks	Baseball outfield	20245	Urban Soil	10-20 cm	6	861	7.5
5030502	Coniston	Parks	Baseball infield	20255	Urban Soil	0-5 cm	17	612	7.2
EC - is in $\mu\text{S/cm}$ TOC - is in mg/g dry weight nd - not determined									

Table E1: Soil pH, Electrical Conductivity (EC) and Total Organic Carbon (TOC) Results for the City of Greater Sudbury, 2001

Station No.	Community	Landuse	Area Used For	Sample No.	Sample Type	Soil Depth	TOC	EC	pH
5030504	Garson	Parks	Greenspace	20265	Urban Soil	5-10 cm	8	139	7.1
5030506	Garson	Parks	Play structure	20275	Play/Beach Sand	0-5 cm	1	49	6.4
5030509	Garson	Parks	Baseball infield	20285	Gravel	0-5 cm	2	128	7.5
5030511	Garson	Parks	Baseball infield	20295	Urban Soil	5-10 cm	1	117	6.6
5030545	Gatchell	Parks	Greenspace	20425	Urban Soil	5-10 cm	8	116	nd
5030547	Gatchell	Parks	Soccer field	20435	Urban Soil	10-20 cm	10	239	nd
5030551	Gatchell	Parks	Baseball outfield	20445	Urban Soil	5-10 cm	14	192	nd
5030553	Sudbury (Core)	Parks	Greenspace	20455	Urban Soil	10-20 cm	5	59	nd
5030595	Sudbury (Core)	Parks	Greenspace	20615	Urban Soil	10-20 cm	6	204	nd
5030596	Sudbury (South)	Parks	Soccer field	19175	Urban Soil	0-5 cm	30	174	6.9
5030609	Sudbury (New)	Parks	Play structure	20915	Play/Beach Sand	0-5 cm	1	25	nd
5030613	Sudbury (New)	Parks	Greenspace	20925	Urban Soil	5-10 cm	6	130	nd
5030617	Sudbury (New)	Parks	Greenspace	20935	Urban Soil	0-5 cm	38	287	nd
5030619	Sudbury (New)	Parks	Soccer field	20945	Urban Soil	5-10 cm	14	353	7.0
5030622	Sudbury (New)	Parks	Baseball outfield	20955	Urban Soil	5-10 cm	24	284	7.1
5030626	Sudbury (New)	Parks	Baseball outfield	20965	Urban Soil	0-5 cm	21	798	7.3
5030627	Sudbury (New)	Parks	Soccer field	20975	Urban Soil	10-20 cm	11	378	7.6
5030639	Val Caron	Parks	Play structure	19825	Play/Beach Sand	0-5 cm	2	25	5.9
5030643	Val Caron	Parks	Baseball outfield	19835	Urban Soil	10-20 cm	15	40	5.3
5030644	Val Caron	Parks	Greenspace	19845	Urban Soil	0-5 cm	19	54	5.3
5030647	Val Caron	Parks	Play structure	19855	Play/Beach Sand	0-15 cm	2	25	7.5
5030651	Val Caron	Parks	Play structure	19765	Play/Beach Sand	0-15 cm	3	25	5.8
5030654	Val Caron	Parks	Baseball infield	19775	Gravel	0-5 cm	8	184	7.0
5030657	Val Caron	Parks	Play structure	19785	Play/Beach Sand	0-15 cm	3	25	7.3
5030660	Val Caron	Parks	Play structure	19795	Play/Beach Sand	0-15 cm	2	25	6.9
5030663	Val Caron	Parks	Play structure	19805	Play/Beach Sand	0-15 cm	1	25	6.6
5030666	Guilleville	Parks	Play structure	19815	Play/Beach Sand	0-15 cm	1	25	6.0
5030670	Bleazard Valley	Parks	Play structure	19865	Play/Beach Sand	0-5 cm	2	25	7.2
5030673	Bleazard Valley	Parks	Baseball infield	19875	Gravel	0-5 cm	5	119	7.3
5030675	Bleazard Valley	Parks	Baseball diamond	19885	Urban Soil	5-10 cm	19	74	6.2

EC - is in $\mu\text{S}/\text{cm}$ TOC - is in mg/g dry weight nd - not determined

Table E1: Soil pH, Electrical Conductivity (EC) and Total Organic Carbon (TOC) Results for the City of Greater Sudbury, 2001

Station No.	Community	Landuse	Area Used For	Sample No.	Sample Type	Soil Depth	TOC	EC	pH
5030677	Sudbury (East)	Parks	Play structure	19735	Play/Beach Sand	0-5 cm	1	25	6.4
5030680	Sudbury (East)	Parks	Greenspace	19745	Urban Soil	0-5 cm	41	240	5.8
5030681	Sudbury (East)	Parks	Native	19755	Undisturbed Soil	10-20 cm	12	31	5.1
5030756	Azilda	Parks	Greenspace	21545	Urban Soil	10-20 cm	20	339	7.5
5030759	Capreol	Parks	Baseball outfield	21555	Urban Soil	0-5 cm	29	213	6.8
5030760	Capreol	Parks	Baseball outfield	21565	Urban Soil	5-10 cm	25	110	6.8
5030763	Capreol	Parks	Soccer field	21575	Urban Soil	10-20 cm	29	83	7.4
5030766	Capreol	Parks	Greenspace	21585	Urban Soil	0-5 cm	44	290	6.9
5030767	Capreol	Parks	Greenspace	21595	Urban Soil	10-20 cm	22	221	7.5
5030770	Capreol	Parks	Greenspace	21605	Urban Soil	0-5 cm	27	124	6.4
5030772	Capreol	Parks	Greenspace	21615	Urban Soil	5-10 cm	10	62	6.3
5030774	Capreol	Parks	Greenspace	21625	Urban Soil	5-10 cm	13	27	5.8
5030778	Capreol	Parks	Greenspace	21635	Urban Soil	0-5 cm	24	77	5.6
5030844	Sudbury (South)	Parks	Greenspace	17945	Urban Soil	5-10 cm	6	191	7.2
5030849	Sudbury (South)	Parks	Play structure	17965	Play/Beach Sand	0-5 cm	6	71	6.8
5030852	Copper Cliff	Parks	Greenspace	17975	Urban Soil	0-5 cm	47	340	6.7
5030854	Lively	Parks	Greenspace	17985	Urban Soil	5-10 cm	18	178	6.6
5030856	Lively	Parks	Play structure	17995	Play/Beach Sand	0-5 cm	1	34	7.2
5030859	Lively	Parks	Greenspace	18005	Urban Soil	10-20 cm	9	241	6.9
5030862	Lively	Parks	Play structure	18015	Play/Beach Sand	0-5 cm	1	25	7.0
5030865	Lively	Parks	Greenspace	18025	Urban Soil	0-5 cm	15	104	6.3
5030878	Whitefish	Parks	Greenspace	18135	Urban Soil	5-10 cm	13	56	6.3
5030879	Hanmer	Parks	Play structure	18325	Play/Beach Sand	0-5 cm	2	27	6.5
5030883	Hanmer	Parks	Baseball outfield	18315	Urban Soil	10-20 cm	8	67	6.7
5030887	Hanmer	Parks	Play structure	18335	Play/Beach Sand	0-5 cm	2	25	6.4
5030890	Hanmer	Parks	Baseball infield	18345	Gravel	0-5 cm	4	84	7.3
5030893	Hanmer	Parks	Greenspace	18355	Urban Soil	0-5 cm	22	48	5.5
5030895	Hanmer	Parks	Baseball outfield	18365	Urban Soil	5-10 cm	11	83	6.3
5030901	Val Therese	Parks	Baseball outfield	18295	Urban Soil	0-5 cm	25	195	6.2
5030902	Val Therese	Parks	Greenspace	18305	Urban Soil	10-20 cm	14	65	6.3

EC - is in $\mu\text{S}/\text{cm}$ TOC - is in mg/g dry weight nd - not determined

Table E1: Soil pH, Electrical Conductivity (EC) and Total Organic Carbon (TOC) Results for the City of Greater Sudbury, 2001

Station No.	Community	Landuse	Area Used For	Sample No.	Sample Type	Soil Depth	TOC	EC	pH
5030908	Val Therese	Parks	Greenspace	18285	Urban Soil	5-10 cm	19	74	5.6
5030910	Whitefish	Parks	Greenspace	18145	Urban Soil	10-20 cm	17	115	6.5
5030913	Whitefish	Parks	Baseball outfield	18155	Urban Soil	0-5 cm	38	287	6.7
5030925	Naughton	Parks	Baseball outfield	18205	Urban Soil	5-10 cm	3	110	7.0
5030927	Lively	Parks	Greenspace	18215	Urban Soil	10-20 cm	1	25	7.2
5030930	Lively	Parks	Greenspace	18225	Urban Soil	10-20 cm	7	104	7.3
5030933	Lively	Parks	Baseball outfield	18235	Urban Soil	0-5 cm	29	186	6.1
5030950	Sudbury (South)	Parks	Native	21725	Undisturbed Soil	0-5 cm	39	48	4.5
5037003	Wanup	Schools/Day Cares	Baseball outfield	14233	Urban Soil	10-20 cm	15	64	5.8
5037008	Sudbury (South)	Schools/Day Cares	Greenspace	14030	Urban Soil	0-5 cm	16	314	6.5
5037010	Sudbury (South)	Schools/Day Cares	Play structure	14038	Play/Beach Sand	0-5 cm	1	25	6.9
5037012	Sudbury (South)	Schools/Day Cares	Greenspace	14047	Urban Soil	0-5 cm	25	593	6.8
5037014	Sudbury (South)	Schools/Day Cares	Baseball infield	14055	Gravel	0-5 cm	9	497	6.9
5037016	Sudbury (South)	Schools/Day Cares	Playground	14004	Urban Soil	5-10 cm	15	69	5.7
5037020	Sudbury (South)	Schools/Day Cares	Baseball outfield	14018	Urban Soil	0-5 cm	25	261	6.6
5037026	Sudbury (South)	Schools/Day Cares	Greenspace	14065	Urban Soil	0-5 cm	13	220	7.2
5037033	Sudbury (South)	Schools/Day Cares	Play structure	14075	Play/Beach Sand	0-5 cm	1	26	7.5
5037046	Sudbury (South)	Schools/Day Cares	Play structure	14094	Play/Beach Sand	0-5 cm	1	25	6.5
5037047	Sudbury (South)	Schools/Day Cares	Play structure	14104	Play/Beach Sand	0-5 cm	15	25	6.4
5037057	Sudbury (South)	Schools/Day Cares	Soccer field	14114	Urban Soil	0-5 cm	16	1440	6.6
5037064	Sudbury (South)	Schools/Day Cares	Play/beach sand pit	14122	Play/Beach Sand	0-5 cm	1	25	7.2
5037070	Sudbury (Core)	Schools/Day Cares	Long jump pit	14143	Play/Beach Sand	0-5 cm	1	25	6.0
5037074	Sudbury (Core)	Schools/Day Cares	Greenspace	14153	Urban Soil	10-20 cm	13	133	6.4
5037079	Sudbury (Core)	Schools/Day Cares	Soccer field	14162	Urban Soil	0-5 cm	26	642	5.0
5037080	Sudbury (Core)	Schools/Day Cares	Baseball infield	14163	Urban Soil	0-5 cm	7	27	6.6
5037081	Sudbury (Core)	Schools/Day Cares	Play structure	14164	Play/Beach Sand	0-5 cm	nd	35	6.3
5037087	Sudbury (Core)	Schools/Day Cares	Greenspace	14173	Urban Soil	0-5 cm	nd	142	6.1
5037090	Sudbury (Core)	Schools/Day Cares	Baseball infield	14183	Urban Soil	0-5 cm	nd	229	6.8
5037096	Sudbury (Core)	Schools/Day Cares	Baseball diamond	14193	Gravel	0-5 cm	nd	83	7.0
5037101	Sudbury (Core)	Schools/Day Cares	Greenspace	14212	Urban Soil	0-5 cm	16	112	5.8

EC - is in $\mu\text{S/cm}$ TOC - is in mg/g dry weight nd - not determined

Table E1: Soil pH, Electrical Conductivity (EC) and Total Organic Carbon (TOC) Results for the City of Greater Sudbury, 2001									
Station No.	Community	Landuse	Area Used For	Sample No.	Sample Type	Soil Depth	TOC	EC	pH
5037105	Sudbury (Core)	Schools/Day Cares	Greenspace	14222	Urban Soil	0-5 cm	7	124	6.0
5037106	Sudbury (Core)	Schools/Day Cares	Baseball infield	14134	Gravel	0-5 cm	7	27	6.3
5037113	Sudbury (Core)	Schools/Day Cares	Play structure	14257	Play/Beach Sand	0-5 cm	1	25	6.7
5037117	Sudbury (Core)	Schools/Day Cares	Playground	14265	Play/Beach Sand	0-5 cm	2	27	6.6
5037122	Sudbury (Core)	Schools/Day Cares	Play structure	14275	Play/Beach Sand	0-5 cm	1	25	6.6
5037127	Sudbury (Core)	Schools/Day Cares	Playground	14285	Gravel	0-5 cm	5	300	7.1
5037134	Sudbury (Core)	Schools/Day Cares	Greenspace	14248	Urban Soil	5-10 cm	18	85	5.6
5037147	Sudbury (East)	Schools/Day Cares	Play structure	14305	Play/Beach Sand	0-5 cm	1	25	6.9
5037149	Sudbury (East)	Schools/Day Cares	Playground	14295	Gravel	0-5 cm	2	25	6.5
5037150	Sudbury (East)	Schools/Day Cares	Play structure	14363	Play/Beach Sand	0-5 cm	1	47	8.0
5037152	Sudbury (New)	Schools/Day Cares	Baseball diamond/soccer field	14395	Urban Soil	0-5 cm	23	93	5.7
5037157	Sudbury (New)	Schools/Day Cares	Baseball outfield	14385	Urban Soil	0-5 cm	5	63	5.9
5037164	Sudbury (New)	Schools/Day Cares	Baseball diamond	14445	Gravel	0-5 cm	2	25	4.7
5037171	Sudbury (New)	Schools/Day Cares	Baseball infield	14455	Urban Soil	0-5 cm	3	83	7.5
5037174	Sudbury (New)	Schools/Day Cares	Playground	14315	Urban Soil	10-20 cm	6	37	5.6
5037179	Sudbury (New)	Schools/Day Cares	Soccer field	14325	Urban Soil	0-5 cm	31	198	6.0
5037186	Sudbury (New)	Schools/Day Cares	Soccer field	14349	Urban Soil	0-5 cm	17	5460	7.0
5037187	Sudbury (New)	Schools/Day Cares	Play structure	14351	Play/Beach Sand	0-5 cm	1	25	6.6
5037195	Sudbury (New)	Schools/Day Cares	Baseball infield	14465	Urban Soil	0-5 cm	2	5420	7.9
5037200	Sudbury (New)	Schools/Day Cares	Playground	14472	Urban Soil	0-5 cm	14	100	6.1
5037209	Sudbury (New)	Schools/Day Cares	Baseball infield	14768	Gravel	0-5 cm	14	1282	5.4
5037216	Sudbury (New)	Schools/Day Cares	Soccer field	14335	Urban Soil	0-5 cm	24	360	6.7
5037224	Sudbury (New)	Schools/Day Cares	Play structure	14375	Play/Beach Sand	0-5 cm	1	31	8.0
5037229	Lively	Schools/Day Cares	Baseball infield	14699	Urban Soil	0-5 cm	13	471	7.4
5037231	Lively	Schools/Day Cares	Soccer field	14702	Urban Soil	0-5 cm	17	515	7.1
5037244	Lively	Schools/Day Cares	Playground	14719	Urban Soil	0-5 cm	5	102	5.4
5037251	Lively	Schools/Day Cares	Play structure	14730	Play/Beach Sand	0-5 cm	1	25	5.7
5037254	Copper Cliff	Schools/Day Cares	Playground	14675	Urban Soil	10-20 cm	24	406	6.8
5037255	Copper Cliff	Schools/Day Cares	Play structure	14676	Play/Beach Sand	0-5 cm	1	25	7.1
5037262	Whitefish	Schools/Day Cares	Soccer field	14741	Urban Soil	5-10 cm	12	78	5.6
EC - is in $\mu\text{S}/\text{cm}$ TOC - is in mg/g dry weight nd - not determined									

Table E1: Soil pH, Electrical Conductivity (EC) and Total Organic Carbon (TOC) Results for the City of Greater Sudbury, 2001

Station No.	Community	Landuse	Area Used For	Sample No.	Sample Type	Soil Depth	TOC	EC	pH
5037266	Sudbury (East)	Schools/Day Cares	Playground	14773	Gravel	0-5 cm	2	318	7.9
5037270	Garson	Schools/Day Cares	Playground	14435	Gravel	0-5 cm	5	224	7.6
5037274	Garson	Schools/Day Cares	Playground	14425	Gravel	0-5 cm	5	42	7.3
5037276	Garson	Schools/Day Cares	Playground	14415	Gravel	0-5 cm	5	91	6.1
5037280	Val Caron	Schools/Day Cares	Baseball infield	14825	Urban Soil	0-5 cm	5	845	7.9
5037283	Val Caron	Schools/Day Cares	Soccer field	14834	Urban Soil	0-5 cm	59	195	6.0
5037287	Val Caron	Schools/Day Cares	Play structure	14785	Play/Beach Sand	0-5 cm	1	54	8.1
5037291	Val Caron	Schools/Day Cares	Play structure	14815	Play/Beach Sand	0-5 cm	5	34	6.5
5037302	Val Caron	Schools/Day Cares	Play structure	14795	Play/Beach Sand	0-5 cm	5	30	5.0
5037304	Bleazard Valley	Schools/Day Cares	Playground	14805	Urban Soil	10-20 cm	14	65	5.3
5037311	Val Therese	Schools/Day Cares	Playground	14655	Urban Soil	0-5 cm	7	31	5.2
5037313	Val Therese	Schools/Day Cares	Play/beach sand box	14645	Play/Beach Sand	0-5 cm	1	66	7.4
5037318	Val Therese	Schools/Day Cares	Baseball diamond/soccer field	14665	Urban Soil	0-5 cm	17	145	6.3
5037323	Garson	Schools/Day Cares	Baseball diamond/soccer field	14405	Urban Soil	0-5 cm	38	117	6.5
5037325	Hanmer	Schools/Day Cares	Play structure	14625	Play/Beach Sand	0-5 cm	2	25	6.2
5037328	Hanmer	Schools/Day Cares	Baseball diamond/soccer field	14635	Urban Soil	10-20 cm	10	68	5.0
5037332	Hanmer	Schools/Day Cares	Soccer field	14613	Urban Soil	0-5 cm	20	102	5.7
5037334	Hanmer	Schools/Day Cares	Soccer field	14608	Urban Soil	0-5 cm	10	257	5.5
5037340	Hanmer	Schools/Day Cares	Soccer field	14588	Urban Soil	0-5 cm	17	405	6.6
5037342	Hanmer	Schools/Day Cares	Long jump pit	14595	Play/Beach Sand	0-5 cm	1	25	5.8
5037359	Falconbridge	Schools/Day Cares	Playground	14759	Play/Beach Sand	0-5 cm	1	29	7.3
5037364	Azilda	Schools/Day Cares	Playground	14483	Gravel	0-5 cm	3	25	6.6
5037371	Azilda	Schools/Day Cares	Playground	14499	Urban Soil	5-10 cm	9	92	5.6
5037375	Chelmsford	Schools/Day Cares	Football field	14505	Urban Soil	5-10 cm	13	195	6.2
5037378	Chelmsford	Schools/Day Cares	Play structure	14515	Play/Beach Sand	0-5 cm	1	25	6.8
5037391	Chelmsford	Schools/Day Cares	Play structure	14525	Play/Beach Sand	0-5 cm	1	25	7.7
5037393	Chelmsford	Schools/Day Cares	Playground	14535	Gravel	0-5 cm	7	85	7.2
5037396	Chelmsford	Schools/Day Cares	Baseball outfield	14545	Urban Soil	0-5 cm	9	114	6.0
5037399	Chelmsford	Schools/Day Cares	Play structure	14553	Play/Beach Sand	0-5 cm	1	25	7.1
5037402	Dowling	Schools/Day Cares	Soccer field	14557	Urban Soil	0-5 cm	36	135	6.5

EC - is in $\mu\text{S}/\text{cm}$ TOC - is in mg/g dry weight nd - not determined

Table E1: Soil pH, Electrical Conductivity (EC) and Total Organic Carbon (TOC) Results for the City of Greater Sudbury, 2001									
Station No.	Community	Landuse	Area Used For	Sample No.	Sample Type	Soil Depth	TOC	EC	pH
5037406	Levack	Schools/Day Cares	Baseball diamond	14568	Gravel	0-5 cm	18	223	7.3
5037408	Levack	Schools/Day Cares	Baseball diamond/soccer field	14565	Urban Soil	5-10 cm	86	115	6.3
5037410	Whitefish	Schools/Day Cares	Soccer field	14746	Urban Soil	0-5 cm	26	1238	4.5
5037413	Capreol	Agriculture	Com. Berry	14845	Tilled Soil	0-10 cm	25	191	6.0
5037413	Capreol	Agriculture	Com. Berry	14846	Tilled Soil	0-10 cm	25	nd	nd
5037414	Capreol	Agriculture	Com. Berry	14849	Tilled Soil	0-10 cm	20	nd	nd
5037414	Capreol	Agriculture	Com. Berry	14850	Tilled Soil	0-10 cm	22	nd	nd
5037415	Capreol	Agriculture	Com. Berry	14853	Tilled Soil	0-10 cm	15	nd	nd
5037415	Capreol	Agriculture	Com. Berry	14854	Tilled Soil	0-10 cm	16	nd	nd
5037416	Capreol	Agriculture	Will blueberry	14857	Tilled Soil	0-15 cm	33	nd	nd
5037416	Capreol	Agriculture	Will blueberry	14858	Tilled Soil	0-15 cm	35	nd	nd
5037417	Capreol	Agriculture	Com. Berry	14861	Tilled Soil	0-15 cm	17	nd	nd
5037417	Capreol	Agriculture	Com. Berry	14862	Tilled Soil	0-15 cm	17	nd	nd
5037418	Bleazard Valley	Agriculture	Com. Berry	14865	Tilled Soil	0-10 cm	17	411	5.1
5037418	Bleazard Valley	Agriculture	Com. Berry	14866	Tilled Soil	0-10 cm	17	nd	nd
5037419	Bleazard Valley	Agriculture	Com. Berry	14869	Tilled Soil	0-10 cm	14	nd	nd
5037419	Bleazard Valley	Agriculture	Com. Berry	14870	Tilled Soil	0-10 cm	16	nd	nd
5037420	Chelmsford	Agriculture	Com. Berry	14874	Tilled Soil	0-15 cm	22	nd	nd
5037420	Chelmsford	Agriculture	Com. Berry	14873	Tilled Soil	0-15 cm	23	nd	nd
5037421	Chelmsford	Agriculture	Com. Berry	14877	Tilled Soil	0-15 cm	19	nd	nd
5037421	Chelmsford	Agriculture	Com. Berry	14878	Tilled Soil	0-15 cm	20	nd	nd
5037422	Chelmsford	Agriculture	Com. Berry	14882	Tilled Soil	0-15 cm	26	nd	nd
5037422	Chelmsford	Agriculture	Com. Berry	14881	Tilled Soil	0-15 cm	27	nd	nd
5037423	Chelmsford	Agriculture	Com. Berry	14885	Tilled Soil	0-15 cm	24	284	6.7
5037423	Chelmsford	Agriculture	Com. Berry	14886	Tilled Soil	0-15 cm	22	nd	nd
5037424	Hanmer	Agriculture	Com. Berry	14890	Tilled Soil	0-15 cm	33	nd	nd
5037424	Hanmer	Agriculture	Com. Berry	14889	Tilled Soil	0-15 cm	34	nd	nd
5037425	Hanmer	Agriculture	Com. Berry	14893	Tilled Soil	0-15 cm	18	nd	nd
5037425	Hanmer	Agriculture	Com. Berry	14894	Tilled Soil	0-15 cm	18	nd	nd
5037426	Hanmer	Agriculture	Com. Berry	14897	Tilled Soil	0-15 cm	15	nd	nd
EC - is in $\mu\text{S}/\text{cm}$ TOC - is in mg/g dry weight nd - not determined									

Table E1: Soil pH, Electrical Conductivity (EC) and Total Organic Carbon (TOC) Results for the City of Greater Sudbury, 2001

Station No.	Community	Landuse	Area Used For	Sample No.	Sample Type	Soil Depth	TOC	EC	pH
5037426	Hanmer	Agriculture	Com. Berry	14898	Tilled Soil	0-15 cm	16	nd	nd
5037427	Massey	Agriculture	Com. Berry	14901	Tilled Soil	0-15 cm	13	nd	nd
5037427	Massey	Agriculture	Com. Berry	14902	Tilled Soil	0-15 cm	21	nd	nd
5037428	Blezard Valley	Agriculture	Com. Berry	14905	Tilled Soil	0-15 cm	21	717	5.6
5037428	Blezard Valley	Agriculture	Com. Berry	14906	Tilled Soil	0-15 cm	22	nd	nd
5037429	Blezard Valley	Agriculture	Com. Berry	14910	Tilled Soil	0-15 cm	18	nd	nd
5037429	Blezard Valley	Agriculture	Com. Berry	14909	Tilled Soil	0-15 cm	18	nd	nd
5037430		Agriculture	Will blueberry	14914	Undisturbed Soil	0-15 cm	36	nd	nd
5037430		Agriculture	Will blueberry	14913	Undisturbed Soil	0-15 cm	38	nd	nd
5037431		Agriculture	Will blueberry	14918	Undisturbed Soil	0-15 cm	9	nd	nd
5037431		Agriculture	Will blueberry	14917	Undisturbed Soil	0-15 cm	11	nd	nd
5037432	Gatchell	Residential	Garden	15155	Garden Soil	0-15 cm	45	414	6.7
5037434	Gatchell	Residential	Yard - back	15175	Urban Soil	0-5 cm	37	95	6.3
5037436	Copper Cliff	Residential	Yard - front	15195	Urban Soil	10-20 cm	16	111	6.4
5037439	Copper Cliff	Residential	Garden	15185	Garden Soil	0-15 cm	40	264	6.9
5037440	Copper Cliff	Residential	Yard - front	15215	Urban Soil	0-5 cm	23	132	6.3
5037443	Copper Cliff	Residential	Yard - front	15225	Urban Soil	0-5 cm	37	230	8.1
5037444	Copper Cliff	Residential	Yard - back	15235	Urban Soil	10-20 cm	35	144	6.1
5037446	Copper Cliff	Residential	Yard - front	15245	Urban Soil	0-5 cm	52	50	6.1
5037447	Copper Cliff	Residential	Yard - back	15255	Urban Soil	10-20 cm	51	25	6.2
5037449	Copper Cliff	Residential	Yard - back	15265	Urban Soil	0-5 cm	34	339	6.2
5037453	Copper Cliff	Residential	Yard - back	15285	Urban Soil	0-5 cm	41	178	6.4
5037456	Copper Cliff	Residential	Garden	15305	Garden Soil	0-15 cm	58	287	6.7
5037457	Copper Cliff	Residential	Yard - front	15315	Urban Soil	5-10 cm	17	187	6.5
5037460	Lively	Residential	Yard - front	15335	Urban Soil	10-20 cm	24	50	5.4
5037460	Lively	Residential	Yard - front	15334	Urban Soil	5-10 cm	20	54	5.4
5037464	Lively	Residential	Yard - back	15365	Urban Soil	10-20 cm	12	122	6.8
5037469	Gatchell	Residential	Yard - back	15385	Urban Soil	0-5 cm	33	100	5.8
5037489	Coniston	Residential	Yard - back	15495	Urban Soil	10-20 cm	12	163	7.0
5037491	Coniston	Residential	Yard - front	15515	Urban Soil	10-20 cm	39	102	6.6

EC - is in $\mu\text{S}/\text{cm}$ TOC - is in mg/g dry weight nd - not determined

Table E1: Soil pH, Electrical Conductivity (EC) and Total Organic Carbon (TOC) Results for the City of Greater Sudbury, 2001

Station No.	Community	Landuse	Area Used For	Sample No.	Sample Type	Soil Depth	TOC	EC	pH
5037494	Coniston	Residential	Yard - back	15525	Urban Soil	10-20 cm	22	102	6.6
5037496	Coniston	Residential	Yard - front	15545	Urban Soil	5-10 cm	16	100	6.7
5037498	Coniston	Residential	Garden	15535	Garden Soil	0-15 cm	31	194	7.0
5037499	Coniston	Residential	Yard - front	15635	Urban Soil	10-20 cm	14	114	6.9
5037501	Coniston	Residential	Garden	15625	Garden Soil	0-15 cm	52	176	6.9
5037505	Coniston	Residential	Yard - back	15665	Urban Soil	0-5 cm	53	128	6.5
5037506	Coniston	Residential	Garden	15655	Garden Soil	0-15 cm	57	725	6.7
5037507	Coniston	Residential	Yard - front	15675	Urban Soil	0-5 cm	72	458	5.6
5037508	Coniston	Residential	Yard - back	15685	Urban Soil	10-20 cm	16	87	5.6
5037510	Falconbridge	Residential	Yard - front	15555	Urban Soil	5-10 cm	8	53	6.3
5037513	Falconbridge	Residential	Yard - front	15575	Urban Soil	10-20 cm	48	194	7.0
5037514	Falconbridge	Residential	Yard - back	15565	Urban Soil	0-5 cm	55	310	6.4
5037517	Falconbridge	Residential	Yard - back	15605	Urban Soil	10-20 cm	74	95	6.0
5037520	Falconbridge	Residential	Yard - back	15615	Urban Soil	5-10 cm	54	150	6.4
5037523	Falconbridge	Residential	Yard - back	15726	Urban Soil	5-10 cm	20	78	6.5
5037525	Falconbridge	Residential	Yard - back	15741	Urban Soil	10-20 cm	30	119	6.4
5037525	Falconbridge	Residential	Yard - back	15737	Urban Soil	0-5 cm	87	257	6.4
5037527	Falconbridge	Residential	Yard - back	15750	Urban Soil	5-10 cm	53	128	6.0
5037528	Falconbridge	Residential	Yard - front	15765	Urban Soil	10-20 cm	55	192	6.6
5037530	Falconbridge	Residential	Yard - front	15775	Urban Soil	5-10 cm	74	317	6.8
5037532	Falconbridge	Residential	Yard - front	15785	Urban Soil	0-5 cm	91	188	6.4
5037534	Falconbridge	Residential	Yard - front	15795	Urban Soil	10-20 cm	41	162	6.4
5037536	Falconbridge	Residential	Yard - front	15805	Urban Soil	5-10 cm	45	180	6.7
5037538	Falconbridge	Residential	Yard - front	15815	Urban Soil	0-5 cm	154	nd	6.3
5037539	Falconbridge	Residential	Yard - back	15825	Urban Soil	10-20 cm	67	165	6.4
5037540	Falconbridge	Residential	Yard - front	15835	Urban Soil	5-10 cm	60	113	6.2
5037542	Falconbridge	Residential	Yard - front	15845	Urban Soil	0-5 cm	101	554	6.4
5037544	Falconbridge	Residential	Yard - front	15855	Urban Soil	10-20 cm	50	257	6.5
5037546	Falconbridge	Residential	Yard - front	15865	Urban Soil	5-10 cm	78	261	6.8
5037548	Falconbridge	Residential	Yard - front	15895	Urban Soil	5-10 cm	58	218	6.3

EC - is in $\mu\text{S/cm}$ TOC - is in mg/g dry weight nd - not determined

Table E1: Soil pH, Electrical Conductivity (EC) and Total Organic Carbon (TOC) Results for the City of Greater Sudbury, 2001

Station No.	Community	Landuse	Area Used For	Sample No.	Sample Type	Soil Depth	TOC	EC	pH
5037550	Falconbridge	Residential	Yard - front	15875	Urban Soil	0-5 cm	84	388	6.9
5037551	Falconbridge	Residential	Yard - back	15885	Urban Soil	10-20 cm	70	156	5.7
5037553	Falconbridge	Residential	Yard - back	15905	Urban Soil	0-5 cm	53	108	6.1
5037554	Falconbridge	Residential	Yard - front	15915	Urban Soil	10-20 cm	39	163	6.5
5037557	Falconbridge	Residential	Yard - back	15926	Urban Soil	10-20 cm	47	140	6.3
5037559	Falconbridge	Residential	Yard - back	15943	Urban Soil	5-10 cm	34	319	6.7
5037561	Falconbridge	Residential	Yard - back	15956	Urban Soil	10-20 cm	18	276	6.8
5037561	Falconbridge	Residential	Yard - back	15955	Urban Soil	5-10 cm	27	374	6.9
5037563	Falconbridge	Residential	Yard - back	15965	Urban Soil	0-5 cm	85	445	5.7
5037564	Falconbridge	Residential	Yard - front	15975	Urban Soil	10-20 cm	46	78	6.5
5037566	Falconbridge	Residential	Yard - front	15985	Urban Soil	5-10 cm	40	189	6.5
5037569	Falconbridge	Residential	Yard - front	15995	Urban Soil	0-5 cm	143	nd	6.2
5037570	Falconbridge	Residential	Yard - front	18445	Urban Soil	0-5 cm	25	174	6.7
5037573	Falconbridge	Residential	Yard - back	18465	Urban Soil	5-10 cm	72	140	6.4
5037574	Falconbridge	Residential	Yard - front	18473	Urban Soil	10-20 cm	30	201	6.7
5037575	Falconbridge	Residential	Yard - back	18479	Urban Soil	10-20 cm	89	203	6.6
5037576	Falconbridge	Residential	Yard - front	18485	Urban Soil	10-20 cm	18	125	7.1
5037578	Falconbridge	Residential	Yard - front	18495	Urban Soil	5-10 cm	65	158	6.6
5037580	Falconbridge	Residential	Yard - front	18505	Urban Soil	0-5 cm	50	304	6.6
5037581	Falconbridge	Residential	Yard - back	18515	Urban Soil	10-20 cm	25	104	6.5
5037583	Falconbridge	Residential	Yard - back	18525	Urban Soil	5-10 cm	57	208	6.0
5037585	Falconbridge	Residential	Yard - back	18535	Urban Soil	0-5 cm	30	188	5.6
5037586	Falconbridge	Residential	Yard - front	18546	Urban Soil	10-20 cm	37	154	6.4
5037589	Falconbridge	Residential	Yard - back	18559	Urban Soil	0-5 cm	80	296	6.6
5037589	Falconbridge	Residential	Yard - back	18563	Urban Soil	10-20 cm	34	183	6.9
5037590	Falconbridge	Residential	Yard - front	18565	Urban Soil	0-5 cm	96	nd	6.7
5037591	Falconbridge	Residential	Yard - back	18575	Urban Soil	10-20 cm	119	273	7.0
5037593	Falconbridge	Residential	Yard - back	18585	Urban Soil	5-10 cm	155	91	6.2
5037595	Falconbridge	Residential	Yard - back	18595	Urban Soil	0-5 cm	63	151	6.5
5037598	Falconbridge	Residential	Yard - front	18615	Urban Soil	5-10 cm	134	213	6.8

EC - is in $\mu\text{S/cm}$ TOC - is in mg/g dry weight nd - not determined

Table E1: Soil pH, Electrical Conductivity (EC) and Total Organic Carbon (TOC) Results for the City of Greater Sudbury, 2001

Station No.	Community	Landuse	Area Used For	Sample No.	Sample Type	Soil Depth	TOC	EC	pH
5037600	Falconbridge	Residential	Yard - front	18625	Urban Soil	0-5 cm	101	152	6.4
5037601	Falconbridge	Residential	Yard - back	18635	Urban Soil	10-20 cm	10	43	6.2
5037603	Falconbridge	Residential	Yard - back	18643	Urban Soil	0-5 cm	76	117	5.3
5037605	Falconbridge	Residential	Yard - back	18655	Urban Soil	0-5 cm	50	121	5.8
5037606	Falconbridge	Residential	Yard - front	18665	Urban Soil	10-20 cm	95	281	6.8
5037608	Falconbridge	Residential	Yard - front	18675	Urban Soil	5-10 cm	52	110	6.2
5037610	Falconbridge	Residential	Yard - front	18685	Urban Soil	0-5 cm	81	320	6.2
5037611	Falconbridge	Residential	Yard - back	18695	Urban Soil	10-20 cm	46	139	6.4
5037613	Falconbridge	Residential	Yard - back	18705	Urban Soil	5-10 cm	51	152	6.4
5037615	Falconbridge	Residential	Yard - back	18715	Urban Soil	0-5 cm	51	128	6.4
5037616		Agriculture	Com. Berry	14965	Tilled Soil	0-10 cm	72	nd	nd
5037622		Agriculture	Market garden	14945	Tilled Soil	0-15 cm	21	480	7.0
5037627		Agriculture	Market garden	14995	Tilled Soil	0-15 cm	15	1100	6.6
5037629		Agriculture	Market garden	15003	Tilled Soil	0-15 cm	15	270	5.8
5037630	Coniston	Residential	Yard - front	16004	Urban Soil	10-20 cm	5	100	6.7
5037632	Coniston	Residential	Yard - front	16015	Urban Soil	5-10 cm	18	96	6.3
5037634	Coniston	Residential	Yard - front	16035	Urban Soil	10-20 cm	37	221	6.6
5037635	Coniston	Residential	Yard - back	16025	Urban Soil	0-5 cm	51	106	5.6
5037637	Coniston	Residential	Yard - back	16045	Urban Soil	5-10 cm	17	155	6.8
5037639	Coniston	Residential	Yard - back	16055	Urban Soil	0-5 cm	73	325	6.4
5037640	Coniston	Residential	Yard - front	16065	Urban Soil	10-20 cm	10	222	6.5
5037645	Coniston	Residential	Yard - front	16095	Urban Soil	10-20 cm	26	78	6.5
5037647	Coniston	Residential	Yard - front	16105	Urban Soil	5-10 cm	17	97	6.4
5037650	Coniston	Residential	Yard - back	16115	Urban Soil	0-5 cm	34	115	6.1
5037651	Coniston	Residential	Yard - front	16125	Urban Soil	10-20 cm	12	72	6.3
5037653	Coniston	Residential	Yard - front	16135	Urban Soil	5-10 cm	12	49	6.5
5037655	Coniston	Residential	Yard - front	16155	Urban Soil	10-20 cm	6	60	6.7
5037656	Coniston	Residential	Yard - back	16145	Urban Soil	0-5 cm	16	90	6.6
5037658	Coniston	Residential	Yard - back	16165	Urban Soil	5-10 cm	25	206	6.4
5037660	Coniston	Residential	Yard - back	16175	Urban Soil	0-5 cm	31	218	6.3

EC - is in $\mu\text{S/cm}$ TOC - is in mg/g dry weight nd - not determined

Table E1: Soil pH, Electrical Conductivity (EC) and Total Organic Carbon (TOC) Results for the City of Greater Sudbury, 2001

Station No.	Community	Landuse	Area Used For	Sample No.	Sample Type	Soil Depth	TOC	EC	pH
5037661	Coniston	Residential	Yard - front	16185	Urban Soil	10-20 cm	6	48	6.4
5037663	Coniston	Residential	Yard - front	16195	Urban Soil	5-10 cm	19	156	6.8
5037665	Coniston	Residential	Yard - front	16205	Urban Soil	0-5 cm	26	98	6.1
5037666	Coniston	Residential	Yard - back	16215	Urban Soil	10-20 cm	17	50	6.5
5037668	Coniston	Residential	Yard - back	16225	Urban Soil	5-10 cm	13	146	7.2
5037670	Coniston	Residential	Yard - back	16235	Urban Soil	0-5 cm	105	39	6.8
5037671	Coniston	Residential	Yard - front	16245	Urban Soil	10-20 cm	25	338	6.6
5037673	Coniston	Residential	Yard - front	16255	Urban Soil	5-10 cm	11	100	7.2
5037675	Coniston	Residential	Yard - front	16265	Urban Soil	0-5 cm	46	223	7.0
5037676	Coniston	Residential	Yard - back	16275	Urban Soil	10-20 cm	19	96	7.0
5037678	Coniston	Residential	Yard - back	16285	Urban Soil	5-10 cm	15	86	6.6
5037680	Coniston	Residential	Yard - back	16295	Urban Soil	0-5 cm	43	359	6.6
5037681	Coniston	Residential	Yard - front	16305	Urban Soil	10-20 cm	8	131	7.2
5037683	Coniston	Residential	Yard - front	16315	Urban Soil	5-10 cm	30	128	7.0
5037685	Coniston	Residential	Yard - front	16325	Urban Soil	0-5 cm	58	70	5.5
5037686	Coniston	Residential	Yard - back	16335	Urban Soil	10-20 cm	11	103	6.3
5037688	Coniston	Residential	Yard - back	16345	Urban Soil	5-10 cm	89	361	7.1
5037690	Coniston	Residential	Yard - back	16355	Urban Soil	0-5 cm	49	797	6.2
5037691	Coniston	Residential	Yard - front	16365	Urban Soil	10-20 cm	18	166	6.4
5037693	Coniston	Residential	Yard - front	16377	Urban Soil	10-20 cm	10	47	6.3
5037695	Coniston	Residential	Yard - front	16385	Urban Soil	0-5 cm	54	253	6.5
5037696	Coniston	Residential	Yard - back	16395	Urban Soil	10-20 cm	17	144	6.7
5037698	Coniston	Residential	Yard - back	16405	Urban Soil	5-10 cm	12	44	5.6
5037700	Coniston	Residential	Yard - back	16415	Urban Soil	0-5 cm	68	305	6.7
5037701	Coniston	Residential	Yard - front	16425	Urban Soil	10-20 cm	8	51	6.3
5037703	Coniston	Residential	Yard - front	16435	Urban Soil	5-10 cm	12	112	7.1
5037705	Coniston	Residential	Yard - front	16445	Urban Soil	0-5 cm	26	304	7.2
5037706	Coniston	Residential	Yard - back	16455	Urban Soil	10-20 cm	15	113	7.1
5037710	Coniston	Residential	Yard - back	16475	Urban Soil	0-5 cm	20	165	5.7
5037711	Coniston	Residential	Yard - front	16485	Urban Soil	10-20 cm	4	61	5.8

EC - is in $\mu\text{S/cm}$ TOC - is in mg/g dry weight nd - not determined

Table E1: Soil pH, Electrical Conductivity (EC) and Total Organic Carbon (TOC) Results for the City of Greater Sudbury, 2001

Station No.	Community	Landuse	Area Used For	Sample No.	Sample Type	Soil Depth	TOC	EC	pH
5037713	Coniston	Residential	Yard - front	16495	Urban Soil	5-10 cm	25	320	6.9
5037715	Coniston	Residential	Yard - front	16505	Urban Soil	0-5 cm	48	99	6.5
5037716	Coniston	Residential	Yard - back	16515	Urban Soil	10-20 cm	12	77	6.9
5037718	Coniston	Residential	Yard - back	16525	Urban Soil	5-10 cm	25	166	6.7
5037720	Coniston	Residential	Yard - back	16535	Urban Soil	0-5 cm	35	131	6.4
5037721	Coniston	Residential	Yard - back	16545	Urban Soil	10-20 cm	14	31	6.2
5037723	Coniston	Residential	Yard - back	16555	Urban Soil	5-10 cm	20	89	6.9
5037725	Coniston	Residential	Yard - back	16565	Urban Soil	0-5 cm	50	205	6.3
5037726	Coniston	Residential	Yard - front	16575	Urban Soil	10-20 cm	12	109	6.6
5037728	Coniston	Residential	Yard - front	16585	Urban Soil	5-10 cm	17	112	6.7
5037730	Coniston	Residential	Yard - front	16595	Urban Soil	0-5 cm	27	101	6.4
5037731	Coniston	Residential	Yard - back	16605	Urban Soil	10-20 cm	16	70	6.2
5037733	Coniston	Residential	Yard - back	16615	Urban Soil	5-10 cm	23	154	7.1
5037735	Coniston	Residential	Yard - back	18732	Urban Soil	10-20 cm	8	59	6.8
5037738	Coniston	Residential	Yard - front	18750	Urban Soil	10-20 cm	10	53	6.8
5037739	Coniston	Residential	Yard - back	18755	Urban Soil	10-20 cm	9	26	6.2
5037741	Coniston	Residential	Yard - back	18765	Urban Soil	5-10 cm	16	165	7.4
5037743	Coniston	Residential	Yard - back	18775	Urban Soil	0-5 cm	41	228	7.1
5037744	Coniston	Residential	Yard - front	18785	Urban Soil	10-20 cm	10	127	7.6
5037746	Coniston	Residential	Yard - front	18795	Urban Soil	5-10 cm	19	164	7.3
5037748	Coniston	Residential	Yard - front	18805	Urban Soil	0-5 cm	34	218	6.1
5037750	Gatchell	Residential	Yard - front	16625	Urban Soil	0-5 cm	44	234	6.7
5037752	Gatchell	Residential	Yard - back	16635	Urban Soil	10-20 cm	8	60	5.5
5037754	Gatchell	Residential	Yard - front	16645	Urban Soil	5-10 cm	28	290	6.8
5037756	Gatchell	Residential	Yard - front	16655	Urban Soil	0-5 cm	34	225	6.6
5037757	Gatchell	Residential	Yard - back	16665	Urban Soil	10-20 cm	11	51	7.2
5037759	Gatchell	Residential	Yard - back	16675	Urban Soil	5-10 cm	7	59	6.6
5037761	Gatchell	Residential	Yard - back	16685	Urban Soil	0-5 cm	44	176	6.0
5037762	Gatchell	Residential	Yard - front	16695	Urban Soil	10-20 cm	6	84	6.4
5037764	Gatchell	Residential	Yard - front	16705	Urban Soil	5-10 cm	24	102	6.4

EC - is in $\mu\text{S/cm}$ TOC - is in mg/g dry weight nd - not determined

Table E1: Soil pH, Electrical Conductivity (EC) and Total Organic Carbon (TOC) Results for the City of Greater Sudbury, 2001

Station No.	Community	Landuse	Area Used For	Sample No.	Sample Type	Soil Depth	TOC	EC	pH
5037766	Gatchell	Residential	Yard - front	16715	Urban Soil	0-5 cm	43	92	5.8
5037767	Gatchell	Residential	Yard - back	16725	Urban Soil	10-20 cm	18	75	6.2
5037769	Gatchell	Residential	Yard - back	16735	Urban Soil	5-10 cm	19	64	6.2
5037771	Gatchell	Residential	Yard - back	16745	Urban Soil	0-5 cm	48	121	6.8
5037772	Gatchell	Residential	Yard - front	16755	Urban Soil	10-20 cm	8	46	6.8
5037774	Gatchell	Residential	Yard - front	16765	Urban Soil	5-10 cm	15	48	5.8
5037776	Copper Cliff	Residential	Yard - front	16775	Urban Soil	0-5 cm	38	194	6.8
5037777	Copper Cliff	Residential	Yard - back	16785	Urban Soil	10-20 cm	20	109	7.4
5037779	Copper Cliff	Residential	Yard - back	16795	Urban Soil	5-10 cm	39	122	7.1
5037781	Copper Cliff	Residential	Yard - back	16805	Urban Soil	0-5 cm	27	164	7.1
5037782	Copper Cliff	Residential	Yard - front	16815	Urban Soil	10-20 cm	36	167	7.1
5037784	Copper Cliff	Residential	Yard - front	16825	Urban Soil	5-10 cm	22	300	7.5
5037786	Copper Cliff	Residential	Yard - front	16835	Urban Soil	0-5 cm	21	238	7.1
5037787	Copper Cliff	Residential	Yard - back	16845	Urban Soil	10-20 cm	22	176	6.8
5037789	Copper Cliff	Residential	Yard - back	16855	Urban Soil	5-10 cm	14	176	6.8
5037791	Copper Cliff	Residential	Yard - back	16865	Urban Soil	0-5 cm	62	59	6.6
5037792	Copper Cliff	Residential	Yard - front	16875	Urban Soil	10-20 cm	14	78	6.0
5037794	Copper Cliff	Residential	Yard - front	16885	Urban Soil	5-10 cm	8	61	6.9
5037796	Copper Cliff	Residential	Yard - front	16895	Urban Soil	0-5 cm	20	149	6.5
5037797	Copper Cliff	Residential	Yard - back	16905	Urban Soil	10-20 cm	32	108	6.5
5037799	Copper Cliff	Residential	Yard - back	16915	Urban Soil	5-10 cm	29	156	6.9
5037801	Copper Cliff	Residential	Yard - back	16925	Urban Soil	0-5 cm	85	62	6.9
5037802	Copper Cliff	Residential	Yard - front	16935	Urban Soil	10-20 cm	25	148	6.4
5037804	Copper Cliff	Residential	Yard - back	16945	Urban Soil	5-10 cm	4	308	6.6
5037806	Copper Cliff	Residential	Yard - back	16955	Urban Soil	0-5 cm	51	183	6.6
5037807	Copper Cliff	Residential	Yard - back	16965	Urban Soil	10-20 cm	57	190	6.5
5037809	Copper Cliff	Residential	Yard - front	17315	Urban Soil	10-20 cm	18	124	6.8
5037811	Copper Cliff	Residential	Yard - front	17325	Urban Soil	5-10 cm	40	101	5.8
5037813	Copper Cliff	Residential	Yard - front	17335	Urban Soil	0-5 cm	38	376	5.4
5037814	Copper Cliff	Residential	Yard - front	17345	Urban Soil	10-20 cm	20	88	5.9

EC - is in $\mu\text{S/cm}$ TOC - is in mg/g dry weight nd - not determined

Table E1: Soil pH, Electrical Conductivity (EC) and Total Organic Carbon (TOC) Results for the City of Greater Sudbury, 2001

Station No.	Community	Landuse	Area Used For	Sample No.	Sample Type	Soil Depth	TOC	EC	pH
5037816	Copper Cliff	Residential	Yard - back	17355	Urban Soil	5-10 cm	27	91	6.3
5037818	Copper Cliff	Residential	Yard - back	17365	Urban Soil	0-5 cm	18	64	6.0
5037819	Copper Cliff	Residential	Yard - front	17375	Urban Soil	10-20 cm	43	129	6.5
5037821	Copper Cliff	Residential	Yard - front	17385	Urban Soil	5-10 cm	74	133	5.9
5037823	Copper Cliff	Residential	Yard - back	17395	Urban Soil	0-5 cm	38	126	6.3
5037825	Copper Cliff	Residential	Yard - back	17425	Urban Soil	0-5 cm	42	239	5.2
5037826	Copper Cliff	Residential	Yard - front	17415	Urban Soil	5-10 cm	51	165	6.5
5037827	Copper Cliff	Residential	Yard - front	17405	Urban Soil	10-20 cm	17	98	6.7
5037829	Copper Cliff	Residential	Yard - front	17445	Urban Soil	5-10 cm	19	260	6.7
5037831	Copper Cliff	Residential	Yard - back	17435	Urban Soil	10-20 cm	42	187	6.6
5037833	Copper Cliff	Residential	Yard - back	17455	Urban Soil	0-5 cm	107	247	6.6
5037834	Copper Cliff	Residential	Yard - front	17485	Urban Soil	0-5 cm	56	188	6.1
5037835	Copper Cliff	Residential	Yard - back	17495	Urban Soil	10-20 cm	27	158	6.5
5037836	Copper Cliff	Residential	Yard - front	17465	Urban Soil	10-20 cm	54	403	6.9
5037838	Copper Cliff	Residential	Yard - front	17475	Urban Soil	5-10 cm	49	190	6.6
5037840	Copper Cliff	Residential	Yard - front	17305	Urban Soil	0-5 cm	44	212	6.5
5037842	Copper Cliff	Residential	Yard - front	17015	Urban Soil	10-20 cm	26	112	6.7
5037843	Copper Cliff	Residential	Yard - back	17005	Urban Soil	0-5 cm	48	196	5.2
5037844	Copper Cliff	Residential	Yard - front	17025	Urban Soil	5-10 cm	12	65	6.5
5037846	Copper Cliff	Residential	Yard - front	17035	Urban Soil	0-5 cm	46	130	6.2
5037849	Copper Cliff	Residential	Yard - back	17045	Urban Soil	10-20 cm	15	102	6.5
5037851	Copper Cliff	Residential	Yard - back	17055	Urban Soil	5-10 cm	36	170	6.7
5037852	Copper Cliff	Residential	Yard - front	17065	Urban Soil	0-5 cm	107	90	6.1
5037853	Copper Cliff	Residential	Yard - side	17075	Urban Soil	10-20 cm	38	85	6.0
5037855	Copper Cliff	Residential	Yard - back	17085	Urban Soil	5-10 cm	9	138	7.4
5037856	Copper Cliff	Residential	Yard - front	17095	Urban Soil	0-5 cm	79	nd	6.8
5037859	Copper Cliff	Residential	Yard - back	17105	Urban Soil	10-20 cm	21	62	6.6
5037861	Copper Cliff	Residential	Yard - back	17115	Urban Soil	5-10 cm	38	144	6.4
5037862	Copper Cliff	Residential	Yard - front	17135	Urban Soil	10-20 cm	36	103	6.2
5037863	Copper Cliff	Residential	Yard - back	17125	Urban Soil	0-5 cm	46	166	6.0

EC - is in $\mu\text{S}/\text{cm}$ TOC - is in mg/g dry weight nd - not determined

Table E1: Soil pH, Electrical Conductivity (EC) and Total Organic Carbon (TOC) Results for the City of Greater Sudbury, 2001

Station No.	Community	Landuse	Area Used For	Sample No.	Sample Type	Soil Depth	TOC	EC	pH
5037864	Copper Cliff	Residential	Yard - front	17145	Urban Soil	5-10 cm	20	66	6.1
5037866	Copper Cliff	Residential	Yard - front	17155	Urban Soil	0-5 cm	38	167	6.0
5037869	Copper Cliff	Residential	Yard - back	17165	Urban Soil	10-20 cm	37	230	7.1
5037871	Copper Cliff	Residential	Yard - back	17175	Urban Soil	5-10 cm	51	234	6.8
5037872	Copper Cliff	Residential	Yard - front	17195	Urban Soil	10-20 cm	13	81	6.8
5037873	Copper Cliff	Residential	Yard - back	17185	Urban Soil	0-5 cm	23	263	6.8
5037875	Copper Cliff	Residential	Yard - front	17211	Urban Soil	5-10 cm	14	184	7.0
5037877	Copper Cliff	Residential	Yard - front	17221	Urban Soil	0-5 cm	108	nd	6.5
5037878	Copper Cliff	Residential	Yard - back	17219	Urban Soil	10-20 cm	14	97	6.3
5037881	Copper Cliff	Residential	Yard - back	17235	Urban Soil	5-10 cm	44	169	6.6
5037882	Copper Cliff	Residential	Yard - front	17255	Urban Soil	10-20 cm	22	170	6.5
5037883	Copper Cliff	Residential	Yard - back	17245	Urban Soil	0-5 cm	100	87	6.1
5037884	Copper Cliff	Residential	Yard - front	17265	Urban Soil	5-10 cm	61	319	6.5
5037886	Copper Cliff	Residential	Yard - front	17275	Urban Soil	0-5 cm	35	336	6.6
5037888	Copper Cliff	Residential	Yard - back	17285	Urban Soil	10-20 cm	26	233	7.0
5037889	Copper Cliff	Residential	Yard - front	17295	Urban Soil	5-10 cm	17	103	6.7
5037892	Sudbury (Core)	Residential	Yard - back	17505	Urban Soil	5-10 cm	30	146	6.2
5037894	Sudbury (Core)	Residential	Yard - back	17515	Urban Soil	0-5 cm	31	551	7.2
5037895	Sudbury (Core)	Residential	Yard - back	18825	Urban Soil	5-10 cm	38	248	6.9
5037897	Sudbury (Core)	Residential	Yard - front	18835	Urban Soil	0-5 cm	79	582	6.8
5037898	Sudbury (Core)	Residential	Yard - back	18845	Urban Soil	10-20 cm	10	95	6.9
5037900	Sudbury (Core)	Residential	Yard - front	18855	Urban Soil	5-10 cm	14	126	5.7
5037902	Sudbury (Core)	Residential	Yard - back	18865	Urban Soil	0-5 cm	23	444	6.3
5037903	Sudbury (Core)	Residential	Yard - back	18875	Urban Soil	10-20 cm	25	234	7.5
5037905	Sudbury (Core)	Residential	Yard - back	18885	Urban Soil	5-10 cm	15	108	6.0
5037907	Sudbury (Core)	Residential	Yard - front	18895	Urban Soil	0-5 cm	35	220	6.4
5037908	Sudbury (East)	Residential	Yard - front	17545	Urban Soil	0-5 cm	40	441	6.9
5037910	Sudbury (East)	Residential	Yard - front	17525	Urban Soil	10-20 cm	11	56	6.0
5037912	Sudbury (East)	Residential	Yard - front	17535	Urban Soil	5-10 cm	26	230	7.1
5037913	Sudbury (East)	Residential	Yard - front	17555	Urban Soil	10-20 cm	23	207	6.8

EC - is in $\mu\text{S/cm}$ TOC - is in mg/g dry weight nd - not determined

Table E1: Soil pH, Electrical Conductivity (EC) and Total Organic Carbon (TOC) Results for the City of Greater Sudbury, 2001									
Station No.	Community	Landuse	Area Used For	Sample No.	Sample Type	Soil Depth	TOC	EC	pH
5037915	Sudbury (East)	Residential	Yard - front	17565	Urban Soil	5-10 cm	14	227	7.4
5037917	Sudbury (East)	Residential	Yard - back	17585	Urban Soil	5-10 cm	11	100	6.7
5037919	Sudbury (East)	Residential	Yard - back	17595	Urban Soil	0-5 cm	29	256	6.5
5037920	Sudbury (East)	Residential	Yard - back	17605	Urban Soil	10-20 cm	13	172	6.9
5037922	Sudbury (East)	Residential	Yard - front	17615	Urban Soil	5-10 cm	28	151	6.7
5037924	Sudbury (East)	Residential	Yard - front	17625	Urban Soil	0-5 cm	33	183	6.1
5037925	Sudbury (East)	Residential	Yard - back	17635	Urban Soil	10-20 cm	6	58	6.5
5037927	Sudbury (East)	Residential	Yard - back	17645	Urban Soil	5-10 cm	19	74	6.0
5037928	Sudbury (South)	Residential	Yard - back	18905	Urban Soil	10-20 cm	8	90	5.6
5037930	Sudbury (South)	Residential	Yard - back	18915	Urban Soil	5-10 cm	14	155	6.7
5037932	Sudbury (South)	Residential	Yard - front	18925	Urban Soil	0-5 cm	19	392	6.6
5037933	Sudbury (South)	Residential	Yard - front	18935	Urban Soil	10-20 cm	10	83	6.4
5037935	Sudbury (South)	Residential	Yard - front	18945	Urban Soil	10-20 cm	6	120	5.2
5037937	Sudbury (South)	Residential	Yard - front	18955	Urban Soil	5-10 cm	10	49	5.8
5037939	Sudbury (South)	Residential	Yard - front	18965	Urban Soil	0-5 cm	105	nd	6.6
5037940	Sudbury (South)	Residential	Yard - front	18975	Urban Soil	10-20 cm	5	95	7.3
5037942	Sudbury (South)	Residential	Yard - front	18985	Urban Soil	5-10 cm	13	108	6.4
5037944	Sudbury (South)	Residential	Yard - front	18995	Urban Soil	0-5 cm	69	366	6.5
5037945	Sudbury (South)	Residential	Yard - front	19005	Urban Soil	10-20 cm	9	153	6.6
5037947	Sudbury (Core)	Residential	Yard - front	20755	Urban Soil	0-5 cm	54	190	5.8
5037948	Sudbury (Core)	Residential	Yard - front	20765	Urban Soil	10-20 cm	58	445	6.8
5037950	Sudbury (Core)	Residential	Yard - front	20775	Urban Soil	5-10 cm	12	167	6.5
5037952	Sudbury (Core)	Residential	Yard - front	20785	Urban Soil	0-5 cm	32	237	6.7
5037953	Sudbury (Core)	Residential	Yard - front	20795	Urban Soil	10-20 cm	13	122	5.5
5037955	Sudbury (Core)	Residential	Yard - back	20805	Urban Soil	5-10 cm	14	134	6.1
5037957	Sudbury (Core)	Residential	Yard - back	20815	Urban Soil	0-5 cm	70	190	6.5
5037958	Sudbury (Core)	Residential	Yard - front	20825	Urban Soil	10-20 cm	6	94	6.8
5037960	Sudbury (Core)	Residential	Yard - back	20835	Urban Soil	5-10 cm	6	54	6.2
5037962	Sudbury (Core)	Residential	Yard - back	20845	Urban Soil	0-5 cm	34	310	6.2
5037963	Sudbury (Core)	Residential	Yard - front	20855	Urban Soil	10-20 cm	20	106	6.0
EC - is in $\mu\text{S/cm}$ TOC - is in mg/g dry weight nd - not determined									

Table E1: Soil pH, Electrical Conductivity (EC) and Total Organic Carbon (TOC) Results for the City of Greater Sudbury, 2001

Station No.	Community	Landuse	Area Used For	Sample No.	Sample Type	Soil Depth	TOC	EC	pH
5037965	Sudbury (Core)	Residential	Yard - front	20865	Urban Soil	5-10 cm	23	161	6.7
5037967	Sudbury (Core)	Residential	Yard - back	20875	Urban Soil	0-5 cm	47	426	6.6
5037968	Sudbury (Core)	Residential	Yard - front	20885	Urban Soil	10-20 cm	16	128	5.8
5037970	Sudbury (Core)	Residential	Yard - back	20895	Urban Soil	5-10 cm	60	207	7.3
5037973	Sudbury (New)	Residential	Yard - back	20685	Urban Soil	5-10 cm	20	118	6.9
5037975	Sudbury (New)	Residential	Yard - back	20695	Urban Soil	0-5 cm	22	196	7.1
5037976	Sudbury (New)	Residential	Yard - back	20705	Urban Soil	10-20 cm	18	257	7.3
5037978	Sudbury (New)	Residential	Yard - back	20715	Urban Soil	5-10 cm	13	135	6.0
5037980	Sudbury (New)	Residential	Yard - back	20725	Urban Soil	0-5 cm	37	378	6.8
5037981	Sudbury (New)	Residential	Yard - back	20735	Urban Soil	10-20 cm	8	133	5.8
5037983	Sudbury (New)	Residential	Yard - back	20745	Urban Soil	5-10 cm	8	88	5.9
5037985	Sudbury (Core)	Residential	Yard - front	20995	Urban Soil	10-20 cm	13	114	6.7
5037987	Sudbury (Core)	Residential	Yard - back	21005	Urban Soil	5-10 cm	29	127	6.3
5037989	Sudbury (Core)	Residential	Yard - front	21015	Urban Soil	0-5 cm	40	286	6.0
5037990	Sudbury (Core)	Residential	Yard - back	21025	Urban Soil	10-20 cm	19	84	6.0
5037992	Sudbury (Core)	Residential	Yard - back	21035	Urban Soil	5-10 cm	23	99	6.1
5037995	Sudbury (Core)	Residential	Yard - back	21085	Urban Soil	0-5 cm	50	205	5.8
5037996	Sudbury (Core)	Residential	Yard - front	21095	Urban Soil	10-20 cm	35	268	7.0
5037998	Sudbury (Core)	Residential	Yard - back	21105	Urban Soil	5-10 cm	43	101	6.5

EC - is in $\mu\text{S}/\text{cm}$ TOC - is in mg/g dry weight nd - not determined

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City of Greater Sudbury 2001 Urban Soil Survey

Appendix F

Soil Data Management

and

Laboratory Quality Control

1.0 Soil Sample Preparation

Soil sample preparation was initiated by the Phytotoxicology Laboratory of the Ministry of the Environment. Due to the large number of samples collected from the City of Greater Sudbury, MOE established a contract with Agat Laboratories in Mississauga, Ontario to continue processing the soil samples as outlined in the MOE Standard Operating Procedures (MOE 2000). Split samples, prepared by both MOE and Agat laboratories, were submitted to MOE Laboratory Services Branch for a metals scan to verify processing was being done correctly. The data agreed within the 20% criterion required by MOE. Agat also performed their own quality control assessment by having two individuals process selected split samples. Agat had the split samples analyzed for metals to verify that individuals of their staff were processing samples similarly. Data corresponding to Agat's internal verification process was accepted by the MOE. MOE staff also audited the Agat facility and required modifications as necessary to ensure compliance with MOE Standard Operating Procedures (MOE 2000).

2.0 Soil Sample Analysis

Lakefield Research Laboratories was selected and funded by local Sudbury industries (ie. Inco & Falconbridge) to analyze all Sudbury samples. The contract with Lakefield was signed after a thorough review of their proposal and evaluation of pre-selected samples. Lakefield is accredited by the Standards Council of Canada / Canadian Association of Environmental Analytical Laboratories to perform metals analysis in soils. All samples are prepared prior to analysis by Lakefield Method 9-2-37. Method 9-2-37 is based on EPA method 3051 and has been further developed at Lakefield Research Limited. Sewage sludge, sediment and/or soil samples are prepared for the determination of various analytes. A representative sample is weighed or measured into a Teflon vessel. Nitric acid and Hydrochloric acid are added, the vessel is sealed and microwave energy is applied. The resulting digestion is centrifuged and sent to various instrument groups for analysis.

Lakefield reported results for this study using three instrumental techniques: inductively coupled plasma mass spectrometry (ICP-MS), inductively coupled plasma-atomic emission spectrometry (ICP) and hydride generation atomic absorption spectrophotometry (HG-AAS). These analyses are performed after the metals in the soil samples are brought into solution using an acid digestion technique. This dissolution step is based on an aqua regia digestion procedure which involves nitric and hydrochloric acids in a 1:3 ratio. Methods were also set up for analysis of pH, Electrical Conductivity and Total Organic Carbon.

The ICP-MS (Method E2022) technique was used for chemical analysis of: antimony (Sb), cadmium (Cd), cobalt (Co), lead (Pb) and nickel (Ni). The ICP (Method E2027) technique was used for chemical analysis of: aluminum (Al), arsenic (As), barium (Ba), beryllium (Be), calcium (Ca), copper (Cu), chromium (Cr), iron (Fe), magnesium (Mg), manganese (Mn), molybdenum (Mo), strontium (Sr), vanadium (V), and zinc (Zn). The HG-AAS (Method E2023) technique was used for chemical analysis of: arsenic (As) and selenium (Se). Refer to Tables F2.1 through F2.3 for analytical method detection limits.

Table F2.1: ICPMS Method Detection

Element	MDL (µg/g)
Antimony	0.8
Cadmium	0.8
Cobalt	1
Lead	1
Nickel	1

Table F2.2: ICP Method Detection Limits

Element	MDL (µg/g)	Element	MDL (µg/g)
Aluminum	2.5	Iron	5
Arsenic	10	Magnesium	1
Barium	0.5	Manganese	2
Beryllium	0.5	Molybdenum	1.5
Calcium	10	Strontium	10
Chromium	5	Vanadium	2
Copper	1	Zinc	2.5

Table F2.3: HGAAS Method Detection

Element	MDL (µg/g)
Arsenic	5
Selenium	1

3.0 Soil Quality Control and Assurance

The quality control activities for the Sudbury project involved a multi-step process. The first step was the analysis of 20 samples from the City of greater Sudbury by both the MOE Laboratory Services Branch and Lakefield. The criterion used was 20%, which is the same criterion used for in-house quality control duplicate samples. The MOE used a hot block digestion procedure while Lakefield used a microwave digestion technique. Both these digestion techniques are similar to those used by the United States Environmental Protection Agency (EPA). This step uncovered some data quality issues such as the use of wrong microwave settings during the microwave digestion process. Several of these issues were resolved.

The second step involved the analysis of a further 80 samples. Lakefield analysed these samples using both microwave and hot block digestions. The microwave digestion procedure produced results closer to those obtained by MOE. As a result, the microwave digestion technique was adopted. Several elements, showed better correlation with MOE data when analysed by ICP-MS rather than ICP. As a result, Co, Pb and Ni were reported by ICP-MS rather than by ICP.

Each sample submission sent to Lakefield contained up to 38 samples, 2 duplicate samples, calibration check samples, instrument blanks, method blanks, 2 certified or in-house reference materials, 1 sample from the original 100 samples analysed, and 1 sample split with the MOE.

Lakefield provided a QC run format for each analytical method used (ICP, ICP-MS, HG-AAS) as well as the acceptance criteria. These data were all passed through the Ministry of the Environment Laboratory Information Management System (MOE LIMS). The manager of the MOE Spectroscopy Section, or designate, checked all data being submitted before approving the results. This involved checking that the QC data provided met the acceptance criteria and that the results for the duplicates and sample split were within acceptable criteria (tentatively set at 20%). The frequency of QC checks for the other 3 parameters (pH, TOC, conductivity) was less frequent and did not exceed 75 samples in total.

Calibration/drift checks were controlled within 10%. Blanks were held under a maximum amount. All elements for Till-2, a reference material, were controlled within 20%. Lead was originally held within 10% which was in keeping with the suppliers specifications. Data for reference material Till-2, was plotted for each element to track changes with time. It appears that values for many elements in Till-2 changed slightly with time. This is likely due to changing to different bottles of material. As a result, acceptance criteria for lead were raised to 20%.

Each submission contained a large number of field replicates. These replicates were expected to be within 20%. Where larger differences occurred, samples were checked with a portable x-ray instrument. If the differences were confirmed, the original data were accepted. Where differences were not acceptable, the samples were re-analysed by either Lakefield or by MOE. Less than 5% of all samples were repeated. Many of the differences were the result of improper use of dilution factors or samples being mixed up during sample collection, preparation or analysis.

MOE also checked the sample processing done at AGAT Laboratories, a contract laboratory hired to prepare samples. This was done to uncover any problems with contamination in the sample processing steps. Approximately 5 samples were processed by both MOE and AGAT. Results for all metals generally fell within 20%. MOE and Agat participated in a large study previously to this, and data were found to be acceptable. This inter-comparison confirmed the acceptability of the data.

For further samples, Agat was responsible for proving their processing capability. This was done by having 2 AGAT staff each prepare a percentage of samples and having AGAT test the samples themselves at their Calgary laboratory. These data were monitored by MOE. Results for these samples were also compared to results supplied by Lakefield.

3.1 Laboratory Differences

Lakefield reported several samples with zinc values less than the detection limit. This was the result of some analytical difficulties. These problems were resolved and all the affected samples were re-analysed and reported.

At the end of the study, a comparison of twenty (20) high metal concentration samples uncovered a bias between MOE Laboratory Services Branch data and Lakefield data with respect to arsenic and cobalt. MOE results were approximately 20% higher than Lakefield's. The arsenic differences were not seen in the pre-project inter-comparison since most of the samples analysed in this early inter-

comparison had relatively low concentrations.

Lakefield normally reports cobalt results by ICP-MS (inductively coupled plasma mass spectrometry) while MOE uses ICP (inductively coupled plasma-atomic emission spectrometry)

Lakefield normally reports high arsenic results (>100 ppm) by ICP and lower values by HG-AAS (hydride generation atomic absorption spectrophotometry). MOE currently reports all arsenic results by hydride generation atomic absorption spectrophotometry.

The methods used to get metals, such as cobalt and nickel, into solution are similar but slightly different. Both methods are based on an aqua regia digestion procedure which involves nitric and hydrochloric acids in a 1:3 ratio. The methods used to dissolve arsenic are quite different, with the MOE method being more rigorous ([MOE = nitric:sulphuric:perchloric] vs [Lakefield = aqua regia]). The perchloric digestion is closer to a 'total' digestion or analysis such as would be obtained by using hydrofluoric acid or fusion techniques or by analyzing by XRF or neutron activation. The aqua regia digestion yields what is generally referred to as 'environmentally available' results. Many Certified Reference Materials (CRM's) now provide results for both total analysis and 'environmentally available' based on specific EPA methodologies.

A number of steps were taken to try to resolve the differences:

1. MOE analysed a second batch of 30 samples to eliminate a one-shot anomaly. The results of the second study confirmed the observations of the first study.
2. Lakefield Research was contacted and told of the findings. Lakefield co-operated fully in the attempt to resolve the differences.
3. MOE analyzed 30 arsenic samples by a second digestion procedure and by two different analytical techniques (ICP and ICP-MS). Initial results by HG-AAS and ICP were similar even with different digestions. This was surprising since there has consistently been a low bias for the aqua regia. vs the nitric;sulphuric;perchloric (NSP) digestion . MOE ICP-MS results were slightly lower than MOE ICP results, but the samples were not analysed until almost 2 weeks later. MOE confirmed that some arsenic is lost from solution with time. Regression analysis showed slopes of 0.93 and 0.87 for samples which were not diluted prior to analysis and those which did need dilution respectively. Some of these differences may be attributable to slope drifts between days, but there does seem to be some loss with time. For samples with greater than 200 ppm arsenic, the MOE ICP-MS data resembled MOE ICP/hydride data or was intermediate between MOE ICP/ Hydride data and Lakefield.
4. MOE analysed all 30 cobalt samples by a second ICP instrument using different wavelengths and 15 samples by a second technique (ICP-MS). The second ICP gave slightly lower results than the instrument normally used for these analyses. The ICP-MS results were generally lower than either ICP instrument, but again these samples were analysed almost 2 weeks after the original analysis. The MOE ICP-MS data more closely resembled the data from Lakefield. MOE selected 2 samples with the widest differences between ICP and ICP-MS to analyse for a full element scan (i.e. look for all possible elements feasible given the equipment) and detected some cerium and neodymium. These should not interfere with either cobalt or arsenic and give any false high results. Both Lakefield and MOE found that the ICP wavelength most commonly used

for cobalt (228.616 nm) is biased slightly high with respect to other wavelengths which can be used. MOE has re-calculated an inter-element correction factor for the interference by titanium on cobalt. This will lower MOE values slightly and reduce the differences in results.

5. MOE purchased 2 certified reference materials which had elevated arsenic values. Results from this testing with the perchloric digestion are about 5% high for arsenic, but within the acceptable range. Lakefield provided data showing that their results were 5% to 15% low for these same two reference samples. MOE analysed these samples with the aqua regia digestion as well and results were 1% to 5% low. MOE cobalt results were 8.7 and 8.4 µg/g respectively with target values of 8.2 µg/g.

Conclusions:

- 1) For any health risk assessments, arsenic results provided by Lakefield Research should be corrected upwards by 10% to bring their results more in line with accepted values for certified reference materials. Lakefield Research has been notified of this decision and is in agreement.
- 2) Cobalt results provided by Lakefield Research will be accepted as will all other results.

3.2 Soil Data Management and QC Measures

Data checking was performed by the manager or a senior scientist of the Spectroscopy Section, as well as staff of the Phytotoxicology Section. If the results for the “check” samples and the replicate data were acceptable, then the rest of the data were checked for outliers. Outliers were generally due to the improper use of dilution factors or sample non-homogeneity. Many of these samples were checked by MOE Phytotoxicology staff using a portable x-ray fluorescence (XRF) unit to determine if differences in results were accurate. Results that were confirmed by the XRF data were accepted. If the original results were not confirmed by the XRF, MOE requested that Lakefield re-calculate the dilution factor or repeat the analyses. Once all these criteria were met, the data were released by MOE Laboratory Services Branch and incorporated into the Sudbury database for further evaluation and reporting.

Once all data had been extracted from the database, Phytotoxicology Staff checked through the data three more times to ensure that all data and sampling information was correct. Extracted data was compared to sampling field notes to ensure all information had been entered correctly into the database. Report tables were then checked again against the field notes and laboratory submissions to ensure data had been manipulated correctly and that sampling information had not changed. The final tables were checked a third and final time for accuracy of information and format consistency. All data management and quality control measures are outlined in Figure F1.

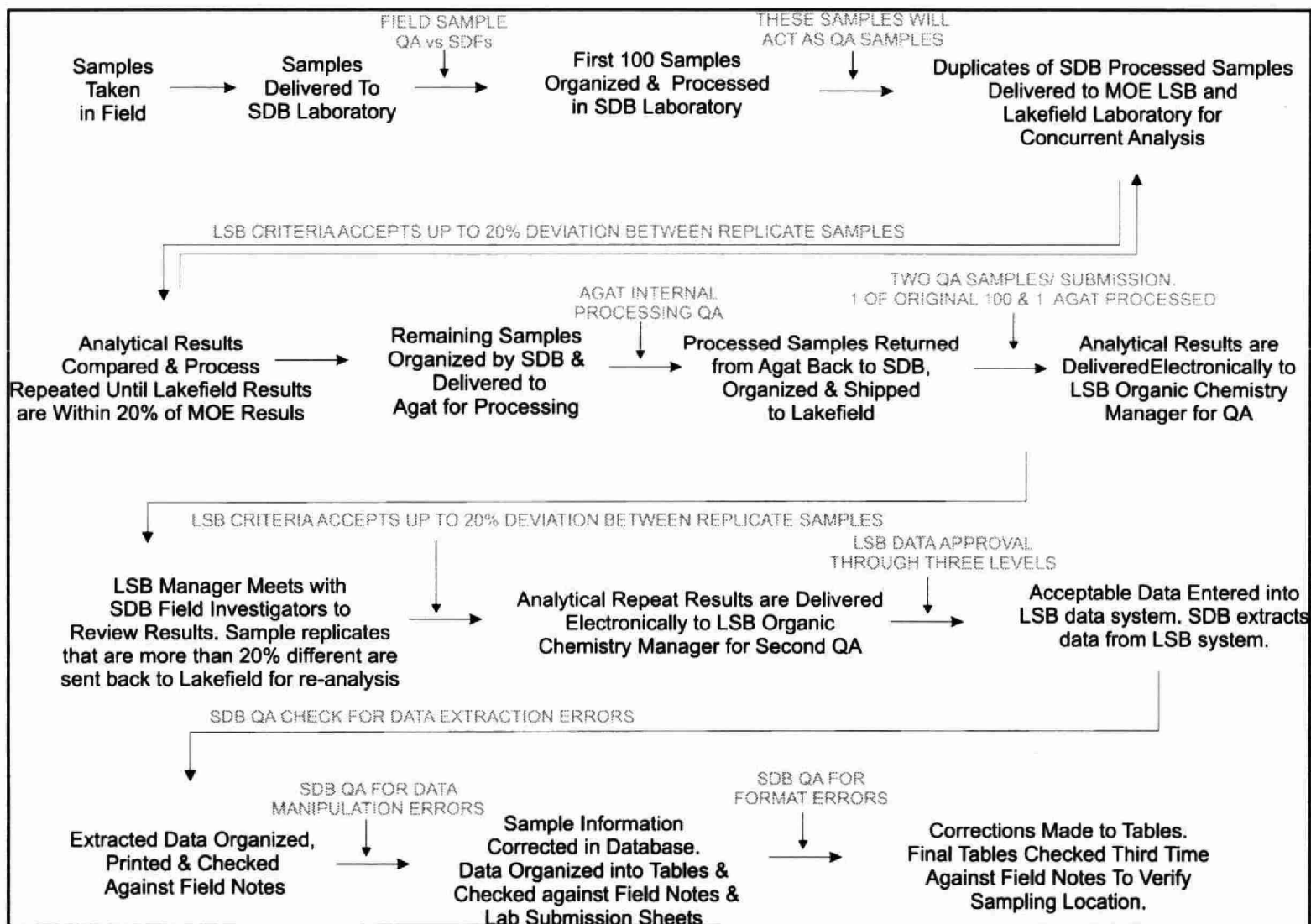


Figure F1: Soil Data Management and Quality Control Measures, City of Greater Sudbury 2001 Survey.

City of Greater Sudbury 2001 Urban Soil Survey

Appendix G

Edible Produce

Laboratory Quality Control Issues

1.0 Grinder Filing Issue

During the period of July and August of 2001, soil and produce samples were collected from seven commercial berry farms, three wild blueberry patches, and six commercial market garden produce growers within the City of Greater Sudbury. Residential garden produce was also sampled at a subset of the residential properties in close proximity to the smelting areas. Six gardens were sampled in Falconbridge and 15 in Coniston and 15 in Copper Cliff, including Gatchell and North Lively.

Vegetation samples were delivered to the MOE Phytotoxicology laboratory for processing (MOE 2000b). The protocol for vegetation processing includes washing the produce with tap water as would be done in the home prior to consumption. All produce samples were treated in this fashion with the exception of the berries. Berry samples could not be washed due to their over ripeness (ie. some had become almost liquified during shipping). Instead, the berry samples were poured into beakers, were oven dried, and ground in a Thomas-Wiley™ mill. The chopped washed vegetables were oven dried and ground in the same fashion. Two different types of Thomas-Wiley mills were used; the Standard Bench Model (Photo 1) with chamber dimensions of 20 cm diameter and 7.6 cm depth and the Intermediate Model (Photo 2) with chamber dimensions of 40 mm diameter and 22 mm depth. Both mills were used in the Sudbury project; however use was dependent on sample size and laboratory sample load. Regardless of which mill was used, the ground material was stored in glass jars until submitted for analysis. All produce samples were forwarded to Laboratory Services Branch (LSB), MOE, for chemical analysis including arsenic(As), aluminum (Al), barium (Ba), beryllium (Be), calcium (Ca), cadmium (Cd), cobalt (Co), copper (Cu), chromium (Cr), iron (Fe), magnesium (Mg), manganese (Mn), molybdenum (Mo), nickel (Ni), lead (Pb), selenium (Se), strontium (Sr), vanadium (V), zinc (Zn), as well as sulphur (S), boron (B), chlorine (Cl), and potassium (K).

Prior to analysis of these samples, the LSB lab technician noted foreign material in the samples that resembled iron filings. He passed a magnet over the sample and noted that these particles were magnetic. All samples were returned to the Phytotoxicology Laboratory, without any analysis completed, where a magnet was passed through all samples in the following manner:

- small aliquots (approximately 1-2 grams) of the processed vegetation samples were poured out onto a sheet of white 8 1/2 x 11 inch paper.
- the fingers of a Neo-Pro powder-free Chloroprene examination glove were removed and placed over a 4.8 cm x 2.2 cm x 1 cm bar magnet to prevent any cross contamination between the magnet and the sample as well as to prevent contamination between samples.
- the covered bar magnet was swept over each aliquot until the entire sample had been screened and any filings that were in the sample adhered to the magnet.
- the glove was removed from the magnet in order for the filings to detach and fall onto the white paper.
- the filings were gathered together by running the magnet underneath the paper.
the collected filings were stuck onto a piece of adhesive tape and placed on the sample jar lid from which they were removed.

Following this procedure, 21 of 246 vegetation samples were found to have magnetic particles with 14 from residential gardens, 4 from commercial vegetable growers, 2 from commercial berry growers and 1 wild blueberry sample. These samples are marked with a † in Appendix A Table 3.6

and Appendix D Tables 3.2 and 3.3. Each piece of tape with filings was stuck onto a microscope slide and all 21 slides were submitted to Laboratory Services Branch for identification by Energy Dispersive X-ray Fluorescence Method ID3092 (C97957) to determine the relative concentrations of total metals present. The samples were examined by stereoscopic and polarized light microscopy. Particles from the samples were mounted on carbon stubs and examined in the scanning electron microscope (SEM) and analysis of individual particles was done by energy dispersive x-ray analysis (EDXRA) to determine elemental composition.

The origin of these magnetic particles was assumed to be either the Standard or Intermediate Wiley Mills used during the processing of the samples. The Standard Wiley Mill, with chamber dimensions of 20 cm diameter and 7.6 cm depth, is composed of both steel and stainless steel materials. The body and blades of the Standard Wiley Mill are composed of steel (primarily iron), while the 1 mm screen is stainless steel. As illustrated in Photo G1, the blades of the Standard Wiley Mill can not come in contact with the stainless steel screen.

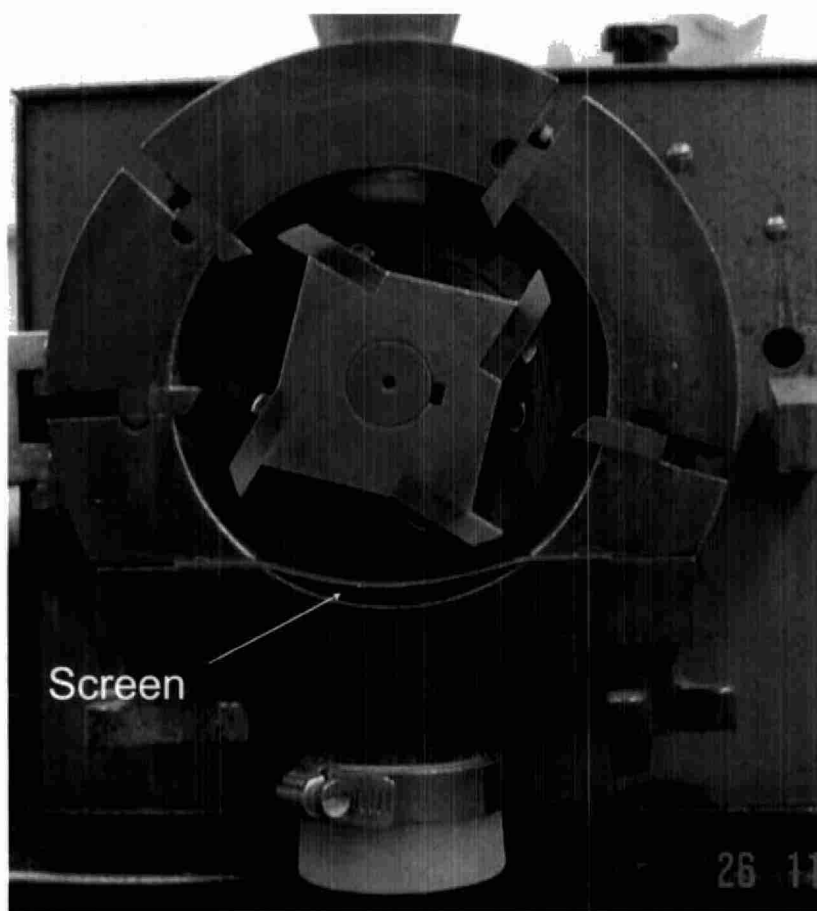


Photo G1: Standard Thomas-Wiley Mill, with chamber dimensions of 20 cm diameter and 7.6 cm depth.

The Intermediate Wiley Mill, with chamber dimensions of 40 mm diameter and 22 mm depth, is composed of nickel, zinc, copper, lead and iron. The body and blades of this grinder are composed of steel. No other parts of the mill have steel or stainless steel materials present. The receiving tube is nickel plated brass, which is an alloy of copper and zinc. The screen had no yellow metal, suggesting it is pure nickel. The screen is attached to the receiving tube with pure lead solder. As illustrated in Photo G2, the receiving tube is not fixed and therefore there it is possible for the blades to come into contact with the screen and/or lead solder during operation.

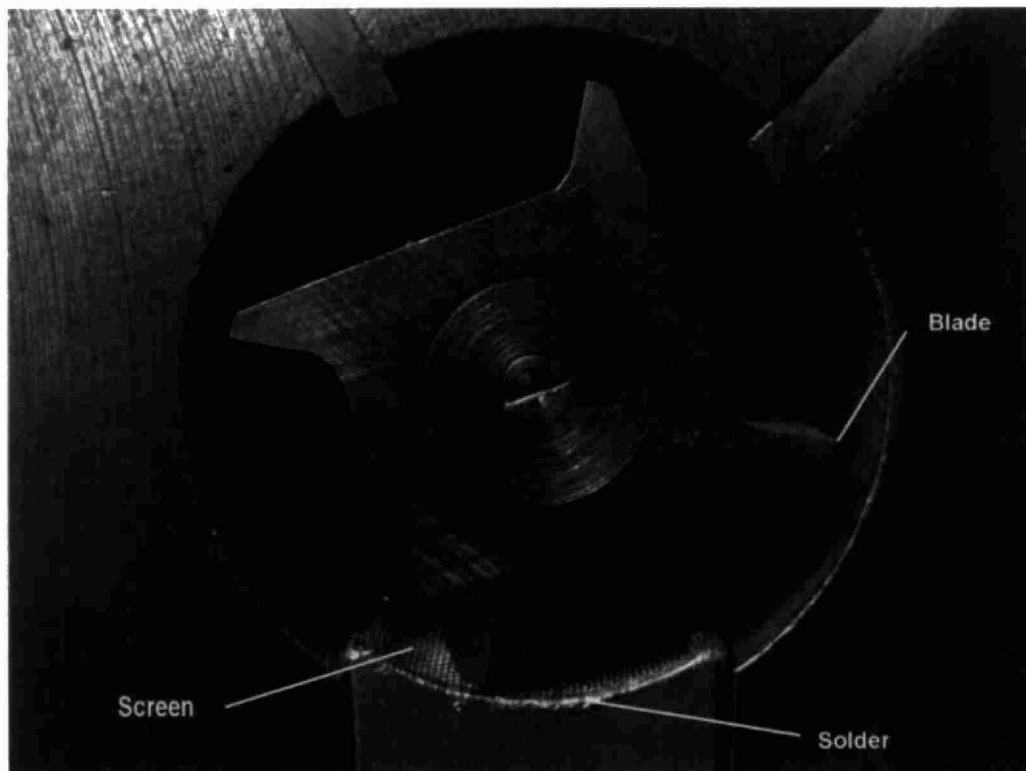


Photo G2: Intermediate Thomas-Wiley Mill, with chamber dimensions of 40 mm diameter and 22 mm depth.

2.0 Results

Table G1.1: Energy Dispersive X-ray Fluorescence Results of Metal Filings Present in Sudbury Edible Produce Samples, 2001.								
Sample	Station	Cr	Fe	Ni	Cu	Zn	Pb	Ca
15151	5037432	-	86	3	3	-	-	6
15160	5037435	-	88	-	-	-	-	9
15161	5037435	-	75	-	-	-	-	22
15205	5037442	-	84	4	3	-	-	8
15343	5037462	-	96	-	-	-	-	3
15356	5037465	-	3	60	4	-	30	-
15378	5037470	-	90	-	-	-	-	7
15354	5037465	-	93	-	-	-	-	5
15658	5037506	-	78	-	-	-	-	16
15532	5037498	-	76	-	-	-	-	21
15534	5037498	-	75	-	-	-	-	21
15221	5037445	-	85	-	-	-	-	10
15326	5037459	-	89	-	-	8	-	-
15183	5037439	-	92	-	-	-	-	4
14979	5037625	7	88	-	-	-	-	3
14949	5037622	-	69	-	-	-	-	28
14987	5037625	-	90	-	-	-	-	7
14986	5037625	-	90	-	-	7	-	-
14863	5037418	-	84	-	-	-	-	14
14859	5037417	-	95	-	-	-	-	4
14916	5037431	-	93	-	-	5	-	-
Concentrations are expressed as percent of the total metals present. These results are qualitative only. No results are given where the measured concentration was less than 2.5 % of the metals present								

Table G1.2: Conclusions Regarding the Source of Metals Found in Sudbury Edible Produce Samples with Filings, 2001.

Field Number	Sample & Location	Comments
15151-2001 15160-2001 15161-2001 15205-2001 15343-2001 15378-2001 15354-2001 15658-2001 15532-2001 15534-2001 15221-2001 15183-2001 14949-2001 14987-2001 14863-2001 14859-2001	lettuce - (5037432) parsley - (5037435) lettuce - (5037435) lettuce - (5037442) lettuce - (5037462) lettuce - (5037470) lettuce - (5037465) lettuce - (5037506) tomato - (5037498) beets - (5037498) beets - (5037445) lettuce - (5037439) radish - (5037622) lettuce - (5037625) strawberry - (5037418) strawberry - (5037417)	These samples contained iron from environmental sources. The presence of magnetite (iron oxide) spheres and other fly ash in many of these samples indicates that, in addition to the iron from the mineral particles, the source of some of the iron could be a high temperature furnace. A more likely scenario is that not all of the soil from the surrounding garden soil was removed during washing and the iron found in these samples was environmental or naturally occurring.
15356-2001	tomato - (5037465)	This sample contained very high levels of Ni and Pb. Analysis of the small shiny metallic fragments present in this sample revealed that they were Ni and Pb. The high levels of nickel and lead in this sample are apparently due to the presence of these metal fragments. This sample was likely ground in the Intermediate Wiley Mill which has both nickel and lead in its composition.
15326-2001 14986-2001 14916-2001	beets - (5037459) swiss chard - (5037625) wild blueberry - (5037431)	These samples contained mainly Fe and a lesser amount of Zn. The metallic particles in these samples were mostly in the shape of straight and curved fragments of wire. The appearance and the results from the elemental analysis of these samples are consistent with contamination of the samples with metal from staples.
14979-2001	beets - (5037625)	In addition to particles containing iron, (iron oxide), this sample contained small irregularly shaped fragments of metal with a bright shiny luster. Elemental analysis of this material revealed that it was Fe and Cr, possibly an iron-chromium stainless steel. This sample was likely ground in the Standard Wiley Mill which is composed of both steel and stainless steel materials.

3.0 Metals Analysis Procedures for Vegetation Samples

Once all samples had been screened for magnetic particles, all 246 edible produce samples were re-submitted to LSB for metals analysis (MET3065) and hydrides (HYD3245) including arsenic (As), aluminum (Al), barium (Ba), beryllium (Be), calcium (Ca), cadmium (Cd), cobalt (Co), copper (Cu), chromium (Cr), iron (Fe), magnesium (Mg), manganese (Mn), molybdenum (Mo), nickel (Ni), lead (Pb), selenium (Se), strontium (Sr), vanadium (V), zinc (Zn), as well as sulphur (S), boron (B), chlorine (Cl), and potassium (K).

In the CAEAL accredited LSB Method MET3065, vegetation samples are ashed and then digested with aqua regia and hydrogen peroxide. The samples are cooled, made to volume and analyzed by Inductively Coupled Plasma Optical Emission Spectrometry.

In the CAEAL accredited LSB Method HYD3245, vegetation samples are digested with a 6:3:1 ratio of Nitric:Sulphuric:Perchloric acid solution. The samples are mixed with hydrochloric acid and made to volume. The samples are then analyzed by Hydride Generation Flameless Atomic Absorption Spectrophotometry.

4.0 Elevated Lead and Nickel Concentrations in Sudbury Residential Garden Produce

There were two distinct collections of produce collected in Sudbury in 2001. The first was of commercial berries, market gardens and wild blueberries. The second was of residential garden vegetables in Coniston, Copper Cliff and Falconbridge.

At the commercial farms and wild berry patches there was a large amount of produce available to sample and large duplicate samples were collected. As a result, all of the commercial berries and vegetables samples were ground using the Standard Thomas-Wiley Mill. No evidence of any lead contamination by grinding was present in these samples.

The residential gardens were small, often only a few plants of each vegetable, and to take enough sample as was collected in the market gardens would have meant the removal of a significant portion of the available produce. As a result only **single** small samples were collected of each vegetable from the residential gardens. Even though the residential garden vegetable samples were small in size, most of the samples were ground on the large Standard Wiley Mill. However, a small number of residential garden vegetable samples were ground using the Intermediate Wiley Mill as well as recollected by technicians. At that time no record was kept as to what grinder was used to grind each sample.

Two factors made the evaluation of the residential garden vegetable results for possible lead, nickel and/or copper contamination from the use of the Intermediate grinder difficult. The first was that only single samples were collected at each garden. If duplicate samples had been collected, as was done with the commercial samples, it would have been easier to discern spurious contamination by the grinder as there would have been a significant difference between the duplicates. The second problem was that the main contamination in the Sudbury area soils from the mining and smelting operations is nickel, copper, and cobalt and to a lesser degree lead. Also lead contamination from paint, historic automobile exhaust, and other sources often result in elevated soil lead concentrations

in residential soils. These are the same elements that contaminate the samples when the grinder blades strike the screen in the small grinder.

During this same time period, vegetable samples from a non-related project were also found to have unexpected elevated lead concentrations. All of these secondary samples were known to have been passed through the small Intermediate Thomas-Wiley Mill which had both nickel and lead present as composition materials of the receiving tube. It is not known which, if any, of the Sudbury vegetable samples were ground in this small grinder. However, the unexpected lead concentrations found in two unrelated projects indicated that some part of the small grinder may be contributing a contaminant.

All Thomas-Wiley mill grinders were temporarily decommissioned for use until the following quality control project was conducted to determine the malleability of the small grinder sieve (MOE inventory tag number C98021).

Step One:

Washed and dried cabbage samples were passed through the Intermediate (small) grinder which was equipped with the 60 mesh nickel plated and lead soldered sieve. This sieve was the only sieve available for use in the small grinder during the time frame of the Sudbury and non-Sudbury related vegetable collection. A new technician was instructed on the grinding processing methodology without any mention of the suspected sieve problem. A total of 14 samples were passed through the grinder to see if lead and/or nickel were removed from the receiving tube during the grinding process or when the receiving tube was removed and replaced during cleaning.

Findings:

Nickel was elevated above the method detection limit in all 14 samples with concentrations ranging from 4.5 to 230 ppm. Lead was elevated above the method detection limit in 11 of 14 samples with concentrations ranging from 2.5 to 24 ppm. Copper was also elevated in 2 of the 14 samples with the highest concentration being 120 ppm. After each sample, the receiving tube is removed and the grinder parts cleaned. It is clear from these results that it is not always possible to place the receiving tube back in the exact location required for proper functioning, thereby resulting in elevated levels of nickel, lead and copper.

Step Two:

Washed and dried cabbage samples were passed through the Intermediate (small) grinder using the 60 mesh nickel plated and lead soldered sieve by a technician who was instructed to push the receiving tube as high as possible so that the stainless steel blades came in contact with the receiving tube and screen. The purpose of this experiment was to determine the degree of abrasion possible when the receiving tube was intentionally placed into the grinder improperly.

Findings:

In this stage of testing, the receiving tube was deliberately placed in a position that would cause contamination of the sample as the blades came into contact with the receiving tube parts. Following the processing of only 4 samples, the mesh screen of the receiving tube was damaged beyond repair due to the constant friction of the blades against the mesh. For all 4 samples, nickel, lead and copper were extremely elevated with the last sample having concentrations of 1200, 180 and 530 ppm, respectively. This testing indicated that with improper placement of the receiving tube, it is possible to contaminate the sample to a large degree and that the highest nickel, copper and lead results

occurred in the same sample.

Step Three:

Washed and dried cabbage samples (14 samples) were passed through the Intermediate (small) grinder using a new receiving tube with a 20 mesh stainless steel sieve mesh. It is not known if this mesh is attached to the receiving tube by lead solder. This receiving tube was properly placed in the small grinder so that the circle of the small grinder inner chamber was completed and the blades did not come in contact with the screen or edges where the screen was attached to the receiving tube. This experiment was done to ensure that the proposed replacement sieve would not contribute any contaminants to study samples.

Findings:

Of the 14 samples, 1 sampled had an elevated nickel concentration of 5.2, while 5 had elevated lead concentrations ranging from 2.7 to 10. These concentrations are not as high as those from the previous testing stage but this testing indicates that sample contamination is still occurring when the Intermediate (small) grinder is used, regardless of the receiving tube used. It was decided after this stage of testing that the Intermediate (small) grinder would be permanently decommissioned from use in the Phytotoxicology Laboratory.

Step Four:

A new Thomas-Wiley Mill Standard Mill, with all parts being stainless steel, was purchased. Prior to using this grinder for processing of any vegetation samples, 67 samples of washed and dried cabbage samples were processed to determine if the stainless steel parts are contributing metals to the study samples.

Findings:

Of the 67 samples, 8 had elevated nickel, iron and chromium concentrations from the wear of the stainless steel blades and grinder body. Elevated nickel concentrations ranged from 2.6 to 34 ppm, elevated iron concentrations ranged from 62 to 220 ppm and elevated chromium concentrations ranged from 4.7 to 69 ppm. This stage of testing indicated that sample contamination was possible when the stainless steel Standard (large) grinder was used and therefore, it may be better to continue using the Standard Thomas-Wiley Mill composed of steel.

Step Five:

Dried cabbage samples will be used as quality control and assurance from this point in time forward. All vegetation samples will be processed on the Standard (large) Thomas-Wiley Mill, with steel body and blades and stainless steel screen. A total of 67 washed and dried cabbage samples were processed through this grinder prior to study samples, during the run of study samples and following the study samples. These cabbage samples will be analyzed along with the study samples to ensure that there is not an increase in metals over time due to grinder deterioration.

Findings:

Of the 67 samples, only 1 sample had an elevated iron concentration of 220 ppm. All nickel, copper, chromium and lead concentrations were very low and in most cases, below the method detection limit. Iron is not normally an element that we are concerned with in Phytotoxicology investigations and therefore, this type of Thomas-Wiley Mill grinder is best suited to use in our laboratory. It was

decided at this point that only this type of grinder would be used for all future vegetation processing, with the grinder blades and body composed of steel and the sieve composed of stainless steel.

Step Seven:

All samples from this point in time forward will be documented with regards to grinder used and technician responsible for processing. This will aid in isolating any future problems with grinder filings and/or increased metal concentrations.

All data relating to this quality control procedure is documented in the MOE report "*Phytotoxicity Laboratory Incident Report*" (MOE 2003).

5.0 Implications for Sudbury Residential Garden Produce:

Following the laboratory quality control project, it was determined that several Sudbury residential garden produce samples had been processed in the Intermediate (small) grinder by several technicians over a 2 month period. To determine which samples had been compromised by the processing, statistical testing was undertaken as outlined below.

It was decided to use lead as the tracer for possible contamination by the Intermediate grinder as lead is not as common as nickel, copper, or cobalt in Sudbury, it is not readily taken up by most plants, and the lead solder is one of the first parts of the Intermediate receiving tube screen struck by the grinder blades. To be on the conservative side it was decided to use a lead concentration of greater than 2 µg/g dry weight as an indication of possible grinder contamination. Of the 148 garden vegetable samples, there were 28 with a lead concentration greater than 2 µg/g. Of these 7 were root vegetables (potato, carrot, beet, etc.), 5 were fruit vegetables (tomato, beans, cucumber, etc.), and 16 were leafy vegetables (lettuce, Swiss chard, parsley, etc.). These samples are marked with an * in Appendix A Table 3.6. There was no correlation between the copper, nickel, cobalt and lead in the root or fruit vegetables in the vegetables with lead greater than 2 µg/g. However, there was a correlation between nickel and copper in the leafy vegetables with lead greater than 2 µg/g. There was also a good correlation between the concentrations of lead and aluminum and aluminum and chromium in the leafy vegetables. Therefore, high lead concentrations occurred with high aluminum concentrations in the leafy vegetables.

Aluminum is a main constituent of soil and elevated aluminum concentrations in the samples suggest that not all of the soil particles were washed off the leafy vegetables. In the soils from the residential properties there was a good correlation between the aluminum concentrations with the chromium and vanadium concentrations. The ratio of aluminum to chromium and vanadium in the soil from each of the gardens in which leafy vegetables had lead greater than 2 µg/g were the same as that found in the leafy vegetables. Thus it can be concluded that the aluminum in the leafy vegetables originated from the soil in which it was grown. The ratio of lead to aluminum in the soil where each sample was collected was multiplied by the amount of aluminum in the leafy vegetable sample to estimate the amount of lead in the leafy vegetable that came from the surrounding soil. There was a very good correlation between the calculated lead concentration and that measured in the lab, see Figure G1. From these results it was concluded that all of the lead greater than 2 µg/g in the leafy vegetables, up to 32 µg/g, is likely due to soil left on the leafy vegetables after washing and not contamination by the Intermediate Wiley Mill grinder. Consequently the nickel and copper results for these same samples are considered accurate.

The same process was used to determining how much of the lead in seven root and five fruit vegetables with lead concentrations above 2.0 µg/g was due to all of the soil particles not being washed of based on the aluminum concentrations in these samples. The aluminum concentrations in these samples was much lower than the leafy vegetables and very little of the lead was attributed to soil particles not being all washed off these samples. Thus these samples were considered to have been potentially contaminated by processing in the Intermediate (small) grinder. Re-sampling of some of the gardens in 2002 confirmed this, see Section 4 below.

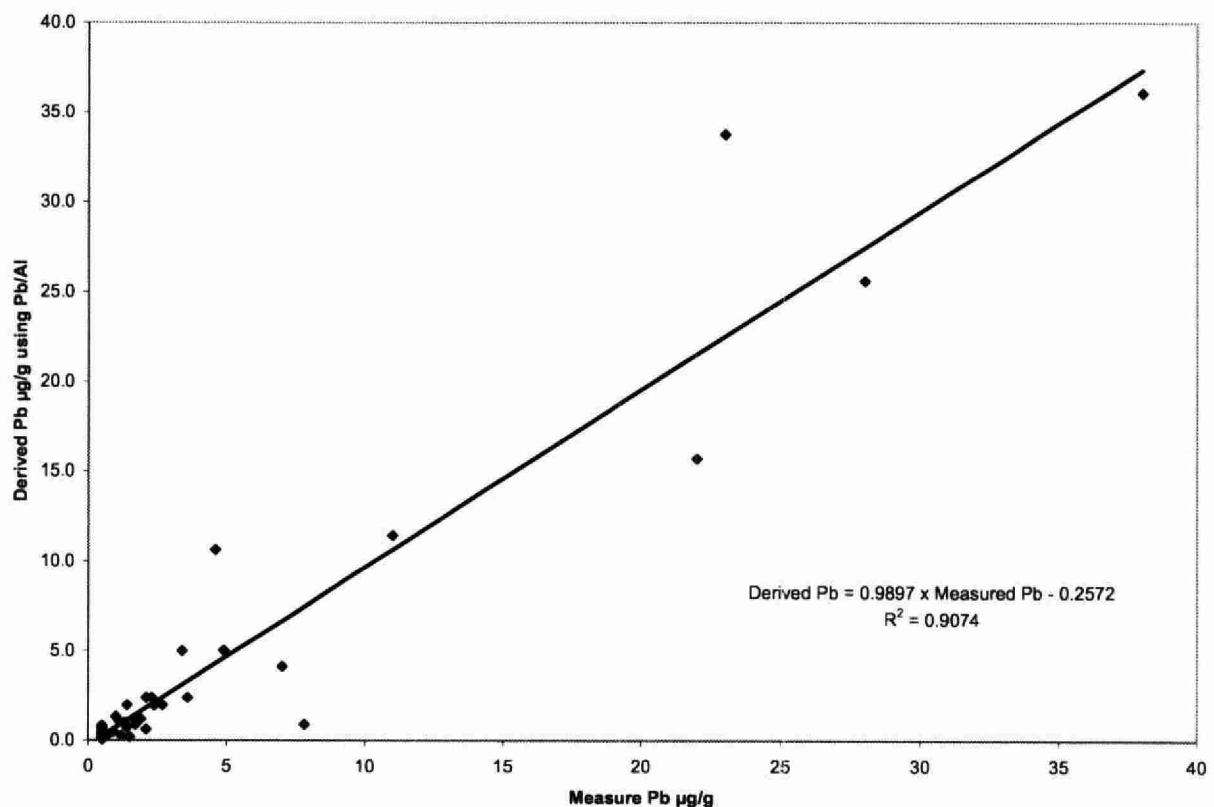


Figure G1: Relationship of measured lead concentration to calculated lead concentration in leafy vegetables collected in residential gardens in Coniston, Copper Cliff and Falconbridge, 2001.

6.0 2002 Sudbury Garden Re-Sampling

In order to verify that the lead concentrations that were found in a small subset of Sudbury residential garden vegetables sampled in 2001 were due to quality control issues associated with the Intermediate (small) Thomas-Wiley Mill used for sample processing and not due to uptake by produce. Five of the original properties sampled in 2001 were re-visited in 2002, those being Diorite and Collins Street in Copper Cliff, Tuddenham Street in Gatchell and John and Suzanne Streets in Lively. Due to the time of sampling, September 2002, only root and fruit vegetables were available for harvest, as well as garden soil.

The results of the 2002 re-sampling of vegetables and soil for the five properties are given in Tables G4.1 to G4.10.

7.0 Conclusions of Re-Sampling

For all five properties, the 2002 re-sampling results of garden soil did not indicate any change from the 2001 soil data. The 2002 vegetation data from properties in Copper Cliff and Gatchell verified the 2001 data found, which indicates that these samples were processed correctly in 2001.

The 2002 vegetation results from John and Suzanne Street in Lively indicate that the 2001 vegetation data was compromised by the use of the Intermediate Wiley Mill for processing. In 2001, carrots from the John Street garden were found to have lead and nickel concentrations of 42 and 54 ppm, respectively. Following re-sampling in 2002 and use of the steel Standard Thomas-Wiley Mill for processing indicated that carrots from this same garden had lead concentrations that were below method detection limits and nickel concentrations ranging from 1.3 to 1.4 ppm.

In 2001, carrots from the Suzanne Street garden were found to have lead and nickel concentrations of 40 and 9.6 ppm, respectively. Following re-sampling in 2002 and the use of the steel Standard Thomas-Wiley Mill for processing indicated that carrots and tomatoes from this same garden had lead concentrations also below method detection and nickel concentrations ranging from 1.9 to 4.1.

These are more accurate vegetation values and were expected based on the surrounding soil concentrations of the same metals. Re-sampling results have proven that the small Intermediate Thomas-Wiley Mill grinder did have an impact on certain vegetable samples that were processed in 2001 (these are indicated in Appendix A by an “**”) and that with proper processing using the large Standard Steel Thomas-Wiley Mill (Photo 1), these elevated lead and nickel concentrations do not occur.

Table G4.1: Results of 2001 and 2002 garden vegetable sampling at Station 5037454, Diorite St., Copper Cliff.

Station	Sample No.	Vegetable	Al	Sb	As	Ba	Cd	Cr	Co	Cu	Fe	Pb	Mg	Mn	Mo	Ni	Se	Sr	V	Zn
2001 Sampling																				
5037454 Diorite St.	15290	beets	120	0.2 <w	0.2 <w	8.5	0.3 <t	0.6 <t	0.4 <t	27	160	0.5 <w	2700	6.1	0.2 <w	22	0.3 <t	5.6	0.5 <w	29
	15292	carrot	82	0.2 <w	0.2 <w	3.3 <t	0.2 <t	0.5 <w	0.2 <w	10	110	0.8 <t	1600	4.7	0.2 <w	16	0.4 <t	5.2	0.5 <w	14
	15294	tomato	13 <t	0.2 <w	0.2 <w	0.5 <w	0.3 <t	0.5 <w	0.2 <w	8.4	40	0.5 <w	840	5.9	0.2 <w	5.2	1	1 <t	0.5 <w	11
2002 Sampling																				
5037454 Diorite St.	1320	beet rep 1	28	0.2 <w	0.2 <w	12	0.3 <t	0.5 <w	0.3 <t	19	47	0.5 <w	2600	4.7	0.2 <w	18	0.6 <t	8.4	0.5 <w	37
	1321	beet rep 2	13 <t	0.2 <w	0.2 <w	16	0.3 <t	0.5 <w	0.2 <w	15	39	0.5 <w	3900	4	0.2 <w	19	0.4 <t	7.8	0.5 <w	41
	1318	carrot rep 1	16 <t	0.2 <w	0.2 <w	3.8	0.1 <w	0.5 <w	0.2 <w	7.5	33	0.5 <w	1100	4	0.2 <w	11	0.4 <t	4.1	0.5 <w	19
	1319	carrot rep 2	13 <t	0.2 <w	0.2 <w	3.7	0.1 <w	0.5 <w	0.2 <w	6.4	28	1.4 <t	1000	2.1	0.2 <w	10	0.5 <t	4.1	0.5 <w	13
	1322	tomato reg.	14 <t	0.2 <w	0.2 <w	0.5 <w	0.2 <t	0.5 <w	0.4 <t	9.4	39	0.5 <w	1500	9.2	0.5 <w	10	0.2 <w	1.1 <t	0.5 <w	14
	1323	tomato cherry	38	0.2 <w	0.2 <w	0.6 <t	0.5	0.5 <w	0.3 <t	10	87	1.1 <t	2000	11	0.9 <w	8.6	1.4	1 <t	0.5 <w	17

Table G4.2: Results of 2001 and 2002 garden soil sampling at Station 5037454, Diorite St., Copper Cliff.

Station	Depth	Sample No.	Al	Sb	As	Ba	Be	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Mo	Ni	Se	Sr	V	Zn
2001 Sampling																						
5037454 Diorite St. (garden)	0-15 cm	15299	9700	< 0.8	7	40	< 0.5	< 0.8	6800	28	8	<u>280</u>	13000	19	3500	170	< 1.5	<u>200</u>	2	37	29	42
		15300	9200	< 0.8	7	38	< 0.5	< 0.8	6800	27	9	<u>280</u>	12000	20	3600	160	< 1.5	<u>220</u>	2	38	28	41
2002 Sampling																						
5037454 Diorite St. (garden)	0-15 cm	1326	11000	< 0.4	8	51	< 0.5	< 0.8	7100	30	13	<u>400</u>	13000	32	4200	170	< 0.5	<u>310</u>	3	25	30	54
		1328	9700	< 0.2	7	38	< 0.5	< 0.6	6900	27	12	<u>330</u>	12000	21	4200	150	< 0.5	<u>260</u>	4	23	26	49
	15-25 cm	1327	10000	< 0.3	10	51	< 0.5	< 0.4	5600	29	12	<u>310</u>	13000	23	3500	180	< 0.5	<u>240</u>	3	21	30	42
		1329	9600	< 0.2	8	39	< 0.5	< 0.6	5100	27	9	<u>230</u>	12000	15	3200	160	< 0.5	<u>180</u>	2	19	26	46

Table G4.3: Results of 2001 and 2002 garden vegetable sampling at Station 5037439, Collins St., Copper Cliff.

Station	Sample No.	Vegetable	Al	Sb	As	Ba	Cd	Cr	Co	Cu	Fe	Pb	Mg	Mn	Mo	Ni	Se	Sr	V	Zn
2001 Sampling																				
5037439 Collins St.	15180	tomato	5 <w	0.2 <w	0.2 <w	0.6 <t	0.1 <w	0.5 <w	0.2 <w	4.9	15 <t	0.5 <w	1100	5.9	0.3 <t	2.8	0.2 <w	1.9 <t	0.5 <w	12
2002 Sampling																				
5037439 Collins St.	1342	tomato rep 1	5 <w	0.2 <w	0.2 <w	0.5 <	0 <t	0.5 <w	0.2 <w	4.3	17	0.5 <w	1100	3.7	0.7 <t	3.7	0.2 <w	2 <t	0.5 <w	8
	1343	tomato rep 2	5 <w	0.2 <w	0.2 <w	0.7 <t	0 <w	0.5 <w	0.2 <w	5.4	11	0.5 <w	1000	2.7	0.6 <t	4.1	0.3 <t	2.9	0.5 <w	9

Table G4.4: Results of 2001 and 2002 garden soil sampling at Station 5037439, Collins St., Copper Cliff.

Station	Depth	Sample No.	Al	Sb	As	Ba	Be	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Mo	Ni	Se	Sr	V	Zn
2001 Sampling																						
5037439 Collins St. (garden)	0-15 cm	15184	11000	1	<u>38</u>	100	< 0.5	0.9	19000	30	20	<u>580</u>	17000	160	6100	270	< 2	<u>570</u>	2	53	26	140
		15185	10000	1	<u>36</u>	92	< 0.5	0.9	18000	26	21	<u>520</u>	17000	160	6000	240	< 2	<u>590</u>	1	48	24	130
2002 Sampling																						
5037439 Collins St. (garden)	0-15 cm	1344	10000	1.7	<u>44</u>	120	< 0.5	0.9	19000	39	21	<u>610</u>	14000	190	6900	290	< 1	<u>600</u>	3	43	26	180
		1346	11000	1.2	<u>38</u>	130	< 0.5	0.8	21000	34	22	<u>680</u>	15000	160	7200	310	< 1	<u>640</u>	3	46	27	180
	15-20 cm	1345	10000	1.3	<u>41</u>	120	< 0.5	0.8	14000	35	22	<u>650</u>	16000	160	4800	260	< 1	<u>620</u>	3	39	27	160
		1347	11000	1.2	<u>40</u>	120	< 0.5	0.6	15000	36	22	<u>590</u>	16000	150	4900	270	< 1	<u>610</u>	4	39	27	160

Table G4.5: Results of 2001 and 2002 garden vegetable sampling at Station 5037435, Tuddenham St., Gatchell.

Station	Sample No.	Vegetable	Al	Sb	As	Ba	Cd	Cr	Co	Cu	Fe	Pb	Mg	Mn	Mo	Ni	Se	Sr	V	Zn
2001 Sampling																				
5037435 Tuddenham St.	15165	potato	19 <t	0.2 <w	0.2 <w	0.5 <w	0.1 <w	0.5 <w	0.2 <w	6	53	0.5 <w	1100	4.1	1 <t	2.3 <t	0.2 <w	0.5 <w	0.5 <w	13
	15157	tomato	5 <w	0.2 <w	0.2 <w	0.6 <t	0.1 <w	1.1 <t	0.2 <w	4.8	63	0.5 <w	1100	8.8	0 <w	2.9	0.2 <w	1.4 <t	0.5 <w	13
2002 Sampling																				
5037435 Tuddenham St.	1334	potato rep 1	5 <w	0.2 <w	0.2 <w	0.5 <w	0.1 <w	0.5 <w	0.2 <w	7.2	26	0.5 <w	1200	4.3	1 <t	2.5	0.2 <w	0.5 <w	0.5 <w	16
	1335	potato rep 2	40	0.2 <w	0.2 <w	0.5 <w	0.1 <w	0.6 <t	0.2 <w	8.2	63	1.7 <t	1200	5.1	1 <t	3.9	0.2 <w	0.5 <w	0.5 <w	18
	1330	tomato rep 1	5 <w	0.2 <w	0.2 <w	0.5 <w	0.2 <t	0.5 <w	0.2 <w	4.3	17	0.5 <w	1200	4.9	1 <t	3.1	0.2 <w	1.7 <t	0.5 <w	9
	1331	tomato rep 2	5 <w	0.2 <w	0.2 <w	0.5 <w	0.2 <t	0.5 <w	0.2 <w	4.3	12	0.5 <w	1200	5.3	0 <t	1.8 <t	0.2 <w	0.9 <t	0.5 <w	10

Table G4.6: Results of 2001 and 2002 garden soil sampling at Station 5037435, Tuddenham St., Gatchell.

Station	Depth	Sample No.	Al	Sb	As	Ba	Be	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Mo	Ni	Se	Sr	V	Zn
2001 Sampling																						
5037435 Tuddenham St. (garden)	0-15 cm	15166	9900	< 0.8	6	85	< 0.5	< 0.8	6900	35	11	210	16000	130	4100	260	< 1.5	190	1	32	28	87
		15167	7200	< 0.8	6	54	< 0.5	< 0.8	3500	56	15	440	14000	51	2700	170	< 1.5	300	1	22	25	58
2002 Sampling																						
5037435 Tuddenham St. (garden)	0-15 cm	1332	11000	< 0.5	7	99	< 0.5	< 0.6	8100	39	12	220	15000	48	4900	290	< 0.5	210	2	32	30	110
		1336	12000	< 0.4	7	100	< 0.5	< 0.7	8900	40	13	220	15000	47	5200	310	< 1.1	210	2	34	32	100
	15-30 cm	1333	11000	< 0.4	7	97	< 0.5	< 0.7	7600	42	13	220	16000	53	5100	290	< 0.5	220	2	32	33	110
		1337	12000	< 0.5	8	100	< 0.5	< 0.6	8600	41	14	230	15000	50	5200	310	< 0.5	220	2	34	32	110

Table G4.7: Results of 2001 and 2002 garden vegetable sampling at Station 5037465, John St., North Lively.

Station	Sample No.	Vegetable	Al	Sb	As	Ba	Cd	Cr	Co	Cu	Fe	Pb	Mg	Mn	Mo	Ni	Se	Sr	V	Zn
2002 Sampling																				
5037465 John St.	15357*	carrot	64	0 <t	0.2 <w	15	0.2 <t	1 <w	0.2 <w	19	92	42	990	6.6	0.2 <w	54	0.2 <w	22	0.5 <w	11
2002 Sampling																				
5037465 John St.	1310	carrot rep 1	26	0 <w	0.2 <w	14	0.1 <w	1 <t	0.2 <w	4.3	50	0.5 <w	980	4.8	0.2 <w	1.4	0.2 <w	26	0.5 <w	15
	1311	carrot rep 2	21	0	0.2 <w	12	0.1 <w	1 <w	0.2 <w	3.5	34	0.5 <w	970	5.1	0.2 <w	1.3	0.2 <w	26	0.5 <w	13

Table G4.8: Results of 2001 and 2002 garden soil sampling at Station 5037465, John St., North Lively.

Station	Depth	Sample No.	Al	Sb	As	Ba	Be	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Mo	Ni	Se	Sr	V	Zn
2001 Sampling																						
5037465 John St. (garden)	0-15 cm	15358	11000	< 0.8	< 5	94	< 0.5	< 1	12000	28	8	79	1700	55	5500	320	< 1.5	80	< 1	65	33	93
		15359	13000	1	< 5	110	< 0.5	< 1	15000	29	8	92	2000	80	6700	340	< 1.5	91	< 1	72	35	110
2002 Sampling																						
5037465 John St. (garden)	0-15 cm	1312	8400	< 0.4	6	75	< 0.5	< 0	9200	25	9	75	13000	35	5600	270	< 0.5	79	< 0.8	45	29	88
		1313	9200	< 0.5	6	84	< 0.5	< 0	9700	26	10	86	14000	48	6000	300	< 0.5	94	< 0.7	46	31	97
	15-30 cm	1314	8500	< 0.3	5	47	< 0.5	< 0	3500	23	10	50	13000	21	3700	200	< 0.5	56	< 0.4	20	31	53
		1315	8300	< 0.3	5	130	< 0.5	< 0	4000	23	9	41	13000	64	3700	190	< 0.5	43	< 0.3	61	30	78

Table G4.9: Results of 2001 and 2002 garden vegetable sampling at Station 5037461, Suzanne St., North Lively.

Station	Sample No.	Vegetable	Al	Sb	As	Ba	Cd	Cr	Co	Cu	Fe	Pb	Mg	Mn	Mo	Ni	Se	Sr	V	Zn
2001 Sampling																				
5037461 Suzanne St.	15338*	carrot	57	0.2 <w	0.2 <w	15	0.1 <w	0.5 <w	0.3 <t	9.7	91	40	1800	5.8	0.2 <w	9.6	0.2 <w	9.8	0.5 <w	23
2002 Sampling																				
5037461 Suzanne St.	1300	carrot rep 1	18	0.2 <w	0.2 <w	8.8	0.1 <w	0.5 <w	0.2 <w	5.4	56	0.5 <w	970	4.6	0.2 <w	2	0.2 <w	5.9	0.5 <w	15
	1301	carrot rep 2	41	0.2 <w	0.2 <w	13	0.1 <w	0.5 <w	0.2 <w	7.4	65	0.5 <w	1200	5.5	0.2 <w	4.1	0.2 <w	7.7	0.5 <w	19
	1306	tomato rep 1	42	0.2 <w	0.2 <w	1	0.1 <w	0.5 <w	0.2 <w	10	85	0.5 <w	1400	11	0.4 <t	1.9	0.2 <w	1.8	0.5 <w	21
	1307	tomato rep 2	25	0.2 <w	0.2 <w	2.2	0.1 <w	0.5 <w	0.2 <w	12	73	0.5 <w	2300	14	0.2 <w	3.1	0.2 <w	3.5	0.5 <w	28

Table G4.10: Results of 2001 and 2002 garden soil sampling at Station 5037461, Suzanne St., North Lively.

Station	Depth	Sample No.	Al	Sb	As	Ba	Be	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Mo	Ni	Se	Sr	V	Zn
2001 Sampling																						
5037461 Suzanne St. (garden)	0-15 cm	15340	14000	< 0.8	8	76	< 0.5	< 0.8	9900	32	10	120	2200	110	6600	270	< 1.5	130	< 1	28	36	110
		15341	18000	< 0.8	9	89	< 0.5	< 0.8	12000	37	11	110	2500	93	7000	350	< 1.5	150	< 1	49	46	96
2002 Sampling																						
5037461 Suzanne St. (garden)	0-15 cm	1302	17000	< 0.6	11	85	< 0.5	< 0.6	10000	37	13	110	22000	45	7200	300	< 0.5	130	1	31	44	95
		1303	17000	< 0.6	11	85	< 0.5	< 0.3	10000	37	13	100	21000	44	7300	300	< 0.5	130	1	32	45	96
	15-25 cm	1304	17000	< 0.7	11	81	< 0.5	< 0.4	5300	36	14	130	22000	28	5400	270	< 0.5	150	2	23	44	73
		1305	17000	< 0.7	11	84	< 0.5	< 0.7	5300	38	14	190	23000	26	5300	290	< 0.5	160	2	25	48	72

City of Greater Sudbury 2001 Survey

Appendix H

Ministry Soil Criteria

MOE Ontario Soil Background Criteria (Table F)

The numbers listed as being “Ontario Soil Background Criteria”, or Table F, were derived from the “Ontario Typical Ranges (OTR)” guidelines (MOE 1997). The OTRs represent the expected upper background range of various chemicals in soil in Ontario. These were derived from a province-wide soil sampling program conducted to determine the range of ambient background chemical concentrations in surface soil in Ontario result from natural geological processes and human activity remote from the influence of known point sources of pollution. Soils were analyzed for approximately 39 inorganic and 119 organic compounds. Soil concentrations above the “background levels” may be indicative of local pollution impacts or could also be a result of local geological deposits or natural sources of organic chemicals, such as ash from forest fires or oil seepage. Complete details on the “background criteria/OTR” development process can be found in the MOE report “*Ontario Typical Range of Chemical Parameters in Soil, Vegetation, Moss Bags and Snow*”, (MOE 1993c). For the Table F, “Ontario Soil Background Criteria” a number of the OTR parameters were taken and new background numbers were created that, with a few minor exceptions, are higher than the OTR₉₈ guideline numbers. The exception occur when the Table A derived number was less than the OTR₉₈ guideline number. In this case both the Table F and Table A numbers were set at the OTR₉₈ guideline number. Complete details on the Table F, “Ontario Soil Background Criteria” development process can be found in the MOE report “*Guideline for Use at Contaminated Sites in Ontario*”, (MOE 1997).

MOE Soil Remediation Criteria (Table A)

The MOE soil remediation criteria have been developed to provide guidance in assessing and triggering certain decisions or actions for soils that have elevated soil concentrations. These criteria are not action levels, in that exceeding one or more of the criteria does not automatically mean that a clean-up must be conducted, but that further study of the potential human and/or ecological risks is warranted.

Decisions on the need to undertake action when the criteria are exceeded require consideration of factors such as:

- ▶ a demonstrated presence or likelihood of an adverse effect to human health and/or the natural environment;
- ▶ an understanding of the type of protection provided by the criteria gained through knowledge of the exposure pathways and receptors (i.e. humans, animals, plants) which were considered in the development of the criteria, and through understanding how that combination of pathways and receptors relate to those which could be found in the community;
- ▶ local environment conditions that are known to modify chemicals availability and toxicity; and
- ▶ an understanding of the relationship between dose and health response for sensitive receptors

from all exposure pathways, including the safety and uncertainty factors that have been used in the development of the criteria.

In each case, the decision to undertake action should entail all of these factors plus any additional factors specific to the community in question. When the decision is made that action is needed, it is generally accepted that a human health and/or ecological risk assessment(s) are carried out to assess the level of risks to the community, identify the major contributing factors to risk and, if warranted develop intervention levels for remediation.

The soil remediation criteria are effects-based concentrations set to protect against the potential for adverse effects to human health, ecological health, and the natural environment, whichever is the most sensitive, often a plant or soil dwelling animal. The overarching assumption is by protecting the most sensitive receptor and the most sensitive endpoint the rest of the environment is protected by default. There are different criteria for land use, soil texture, soil depth, and ground water use. The criteria have also been established so that there will not be a potential for adverse effects through chemicals transferred from soil to indoor air, from ground water or surface water through release of volatile gases, from leaching of chemicals in soil to ground water, or from ground water discharge to surface water.

Currently there are criteria for approximately 25 inorganic elements and 90 organic compounds. Criteria were developed only if there were sufficient, defensible, effects-based data on the potential to cause an adverse effect. The development of Soil Remediation Criteria is a continuous program, and criteria for more elements and compounds will be developed as additional environmental data become available. Similarly, new information could result in future modifications to the existing criteria.

For more information, please refer to the Guideline for Use at Contaminated Sites in Ontario. Revised December 1997, Ontario Ministry of Environment and Energy, PIBs 3161E01, ISBN 0-7778-5905-X.1.